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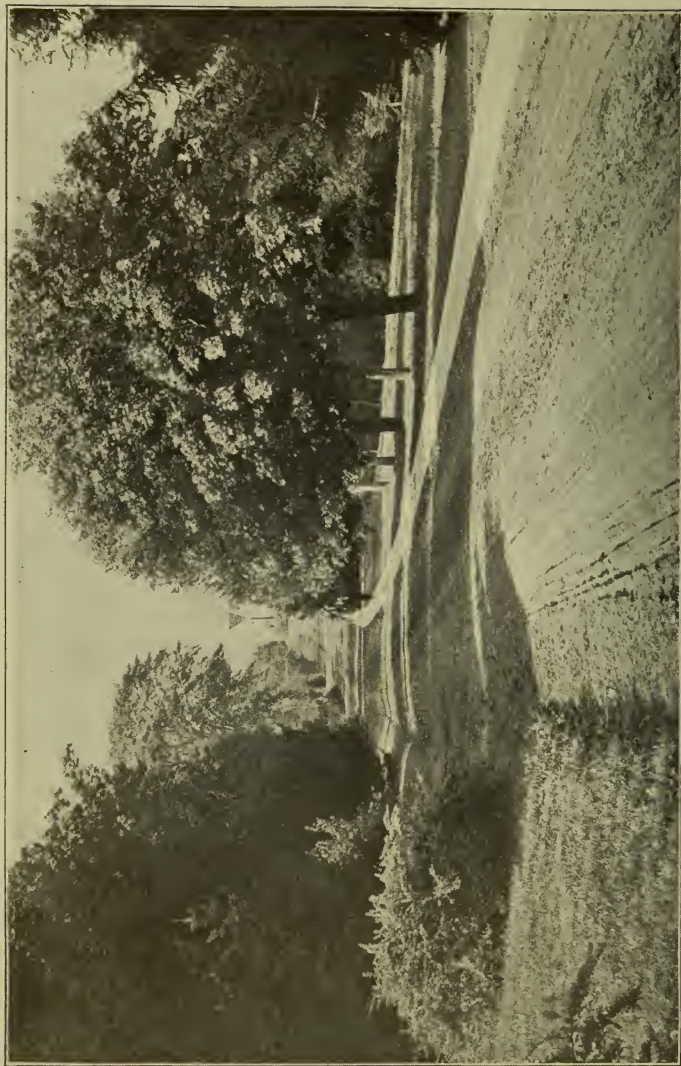
THE SUMMER TERM OF THE UNIVERSITY OF MAINE

JULY 3---AUGUST 11
1911



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AUGUSTA
1911



View on the Campus.

FACULTY OF INSTRUCTION

ROBERT JUDSON ALEY

President

A. B., Indiana, 1888; A. M., 1890; Ph. D., Pennsylvania, 1897; LL. D., Franklin, 1909; Principal High School, Spencer, Indiana, 1882-85, 1886-87; Instructor in Mathematics, Indiana University, 1887-88; Professor of Mathematics, Vincennes University, 1888-1891; Professor of Mathematics, Indiana University, 1891-1910; Harrison Fellow, University of Pennsylvania, 1896-97; Acting Assistant Professor of Mathematics, Leland Stanford Junior University, 1894-95; Superintendent Public Instruction, Indiana, March 15, 1909-November 12, 1910; President, Maine, December 1, 1910——.

JAMES NORRIS HART

Mathematics

B. C. E., Maine, 1885; C. E., 1890; M. S., Chicago, 1897; Sc. D., Maine, 1908. Principal Dennysville High School, 1885-86; Principal Machias High School 1886-87; Instructor in Mathematics and Drawing, Maine, 1887-90; Professor of Mathematics and Astronomy, 1891——; Dean of the University, 1903——.

JAMES STACY STEVENS

Physics

B. S., Rochester, 1885; M. S., 1888; M. S., Syracuse, 1889; LL. D., Rochester, 1907. Principal Village School, Jasper, N. Y., 1885-6; Instructor in Sciences, Cook Academy, Havana, N. Y., 1886-91; Graduate Student, Chicago, 1895-6; Professor of Physics, Maine, 1891 ——; Dean of the College of Arts and Sciences, 1905 ——.

RALPH KNEELAND JONES

Librarian

B. S., Maine, 1885. Librarian, Maine, 1897 ——.

GEORGE DAVIS CHASE

Latin

Harvard, A. B., 1889; Sub-master and teacher of Latin and Mathematics in Bristol Academy, Taunton, Mass., 1889-94; Harvard Graduate School, 1894-07; A. M., Harvard, 1895, Ph. D., 1897; Harvard Traveling fellow at University of Leipzig, 1897-98; Teacher of Latin at Lawrenceville School, Lawrenceville, N. J., 1898-99; Assistant Professor of Comparative Philology, Cornell University, 1899-1901; Instructor in Latin, Wesleyan University, 1901-1902; Associate Professor of Latin, 1902-05; Professor of Latin, Maine, 1905 ——.

ROBERT JAMES SPRAGUE

History and Sociology

B. A., Boston, 1897; M. A., Harvard, 1900; Ph. D., Boston, 1901. Teacher, Eastern Maine Conference Seminary, 1893-94; Teacher, Maine Wesleyan Seminary 1897-98; Professor of Economics and Sociology, Knox, 1901-6; Lecturer on Sociology, Bangor Theological Seminary; Professor of Economics and Sociology, Maine, 1906 —.

CAROLINE COLVIN

History

B. A., Indiana University, 1893; Ph. D., University of Pennsylvania, 1901; Student in Europe, 1901-1902; Fellow, University of Pennsylvania, 1898-1901; Teacher in Fort Wayne High School, 1893-1898; Instructor in History, Maine, 1902-03; Assistant Professor, 1903-06; Professor 1906—.

ROLAND PALMER GRAY

English

B. A., Columbia University, 1893; M. A., 1907; 1897 and 1899, summer term student, Harvard. Graduate student, Yale, Oxford, and British Museum, London. 1893-94, Instructor in English literature, Marmaduke Military Academy, Mo.; 1894-45, Instructor in English, University of Nebraska; 1895-1901, Instructor in English; 1901-05, Assistant Professor of English, The University of Rochester; 1901-08, Professor of the English Language and Literature, Acadia University, Canada; 1908-09, Assistant Professor of English, Indiana University; Professor of English, Maine, 1909—.

JOHN COULTER HOCKENBERRY

Education

Graduate of State Normal School, West Chester, Penna.; A. B., Indiana University, 1899; Ph. D., University of Pennsylvania 1905; student in Pedagogy for one year in Germany, France, and England; student for one semester at Jena; John Leib Harrison Fellow in Pedagogy, University of Pennsylvania, 1903; teacher in grammar and high schools in Pennsylvania, Virginia, and New Jersey; instructor in summer schools in Western University of Pennsylvania, 1907, Drake University, 1908, and Hyannis, Mass., 1909; Professor of Pedagogy, Westfield, Mass.. State Normal School.

CHARLES WILSON EASLEY

Chemistry

A. B., Dickinson, 1897; A. M., 1899; Ph. D., Clark University, 1908; Instructor in Science, Troy Conference Academy, Poultney, Vt., 1897-99; Instructor in Science, Dover Academy, Dover Del., 1899-01; Graduate student, Clark University, 1901-03; Fellow, 1902-03; Instructor in Chemistry, Clark College, 1903-08; Assistant Professor, 1908-09; Associate Professor, Maine, 1909—.

LEON ELMER WOODMAN

Physics

A. B., Dartmouth, 1899; A. M., 1902, Ph. D. Columbia, 1910. Assistant in Physics, Nashua, N. H., High School, 1902-4; Instructor in Physics, Maine, 1904-05; Assistant in Physics, Columbia, 1905-7; Fellow in Physics, Columbia, 1907-8; Assistant Professor of Physics, Maine, 1908—.

GEORGE EDWARD SIMMONS

Agriculture

B. S., Ohio Northern University, 1902; M. S., 1905; B. S. in Agriculture, Ohio State University, 1909; Instructor for one year in Ohio Northern University; Assistant Professor of Agronomy in charge of Extension Work, University of Maine, 1909-1910; Assistant Professor of Farm Management and Agricultural Engineering, 1910 —.

CORNELIA PALMER

Domestic Science

Pratt Institute, Brooklyn, N. Y., 1909; Teacher in St. Lawrence University, Canton, N. Y., 1909-1910.

TRUMAN LEIGH HAMLIN

Mathematics

A. B., Western Reserve University, 1899; Professor of Latin, Benedict College, 1899-1901; Teaching Fellow in Mathematics, Missouri State University, 1901-1902. A. M., Missouri State University, 1902; Superintendent, Jackson Military Academy, 1902-1909; Instructor in Mathematics, University of Maine, 1909-10; Assistant Professor, 1910—.

EUGENE LOUIS RAICHE

French

Nicolet College, 1890; Andover Theological Seminary, 1897; Instructor Walnut Hill School, 1901-04; The Allen School, 1902-06; Simmons College, 1906-7; Maine (Summer Term) 1905, 1906, 1909; Browne and Nichols School, Cambridge, 1906; Resident Candidate for the Doctor's Degree, University of Montpelier, France, 1909-10.

HELENE JULIE RAICHE

French Conversation

Ecole Normale de Montbéliard, France, 1889; Instructor, Summit, N. J., 1890-1895; Wellesley College, 1895-1896; Supplied at Bradford Academy, 1896-1897; Wellesley College and Walnut Hill School from 1900 to 1904; Simmons College, 1903-1904; Private schools, Cambridge and Milton, since 1904.

LOWELL JACOB REED

Mathematics

B. S., Maine, 1897; Instructor in Mathematics and Physics, Maine, 1907-8; Instructor in Mathematics, Maine, 1908 —.

WALTER EVERETT PRINCE

English

Ph. B., Brown University, 1904; A. M., 1905; Instructor in English, Maine, 1905—.

LLOYD MEEKS BURGHART

Chemistry

B. A., Lake Forest University, 1906; In charge of laboratories at Dubuque, Iowa, Chicago, and Pekin, Ill.; Graduate Assistant in Analytical Chemistry, University of Illinois, 1909, Instructor in Chemistry, Maine, 1910—.

ROBERT RUTHERFORD DRUMMOND

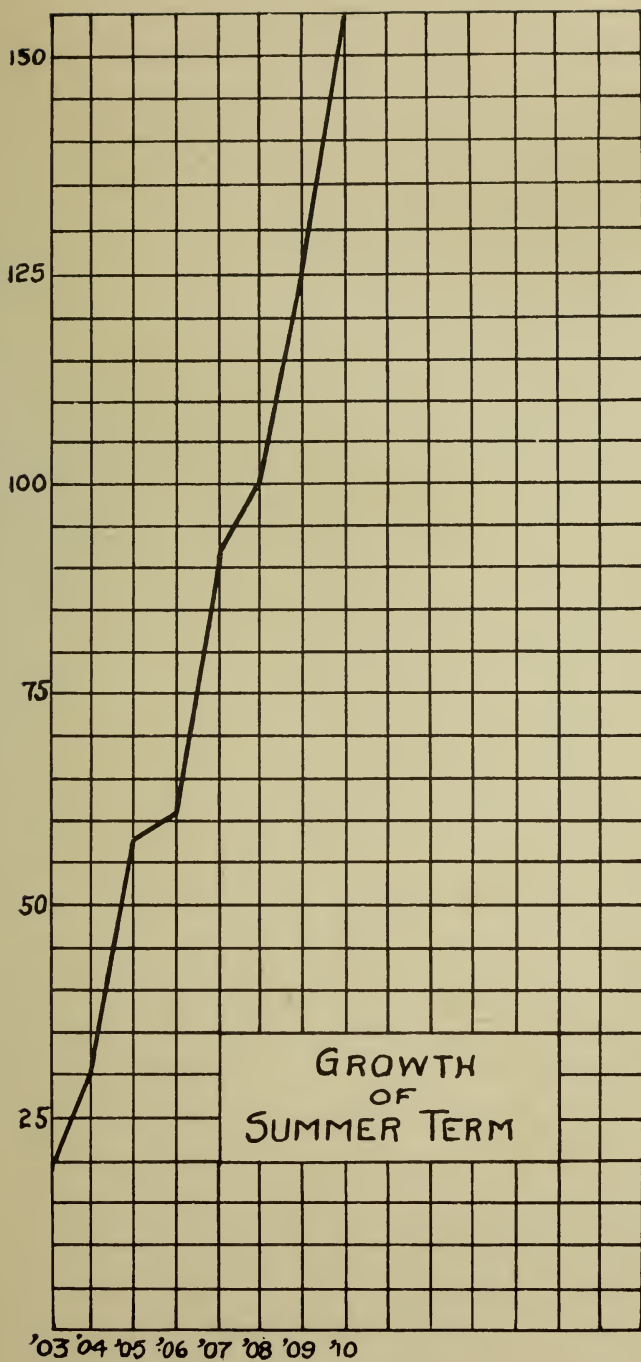
German

B. S., University of Maine, 1905; University Scholar in Germanics, University of Pennsylvania, 1905-1907; Harrison Fellow in Germanics, 1907-1909; Ph. D., 1909; University of Goettingen, 1908; Instructor in German, St. Joseph's College, Philadelphia, 1906; Acting Professor of Modern Languages, Pennsylvania Military College, 1907; Instructor in German, Maine, 1909—.

GENERAL INFORMATION.

The Summer Term of the University of Maine was established in 1903. It has had a gradual and encouraging growth and has enrolled among its members a large number of teachers and superintendents from Maine and other states. The courses are for the most part given by heads of departments of the Faculty of the College of Arts and Sciences of the University of Maine. In the cases where it has been necessary to go outside the Faculty, an effort has been made to maintain an equally high standard of efficiency. The majority of the courses offered are of college grade, but there are a few courses which are designed to meet the wants of students in preparatory schools who have not quite completed their collegiate preparation. By consulting the list of courses offered it will be seen in what manner this may be done in the various departments.

The following plot shows the growth of the summer term since its organization:



PURPOSES

The Summer Term of the University of Maine is designed to meet the needs of three classes of persons:

TEACHERS

From the beginning, the Summer Term has endeavored to meet the needs of the teachers of Maine.

There are a large number of teachers who were obliged to begin their work without the opportunity of a college training and such teachers feel themselves hampered by the lack of thorough preparation. While it is not expected that the short time spent at the Summer Term of the University will compensate for this lack, it is, nevertheless, true that a large amount of information and inspiration may be received by attendance at this session. The work is especially helpful to those who are planning to go to college at some future time and who wish to obtain, in advance, a certain amount of college credit; or to those who have partially completed a college course and wish to continue it with as little break in their work as possible. Quite a large number of students have availed themselves of this opportunity to supplement their college work by work done at the Summer Term.

COLLEGE STUDENTS

Students of the University and other colleges, who, for various reasons, are in arrears in their work, or who may wish to gain additional credits in their course, find the Summer Term profitable. For such students the opportunity is offered along the lines of the elective subjects which they would regularly take in their college curriculum.

The attention of students is called to the courses in Mathematics, Physics, Mechanics, and Economics which are to be offered this year.

PREPARATORY STUDENTS

While the Summer Term is designed primarily for students of college grade, there are certain courses offered each year which are designed to be of value to students in preparatory schools who have not quite completed their college entrance requirements. Courses for such students are offered in English, French, German, Latin, Physics, Chemistry, and Mathematics.

THE SHORT COURSE IN AGRICULTURE FOR PASTORS

There is at the present time a country-wide awakening in Agriculture. This awakening is not only in better methods of farming but in all that pertains to rural life. Social as well as industrial and economic conditions are changing. Many new problems have arisen. Necessarily new solutions must be marked out and new adjustments made.

Is the Church to be a more or less important center in the new rural life? Few would say that it should exert a smaller influence, or that its field should be narrowed. A large percentage of the pastors in rural communities, however, are city bred men or men who have been away from the farm so long that they are out of touch with it. Both classes do not properly appreciate its problems and are unacquainted with many of the real needs of those who live in the country. It would seem that a better knowledge of the industrial, economic, and agricultural side of farm life would be of great use to those trying to serve its social and religious needs.

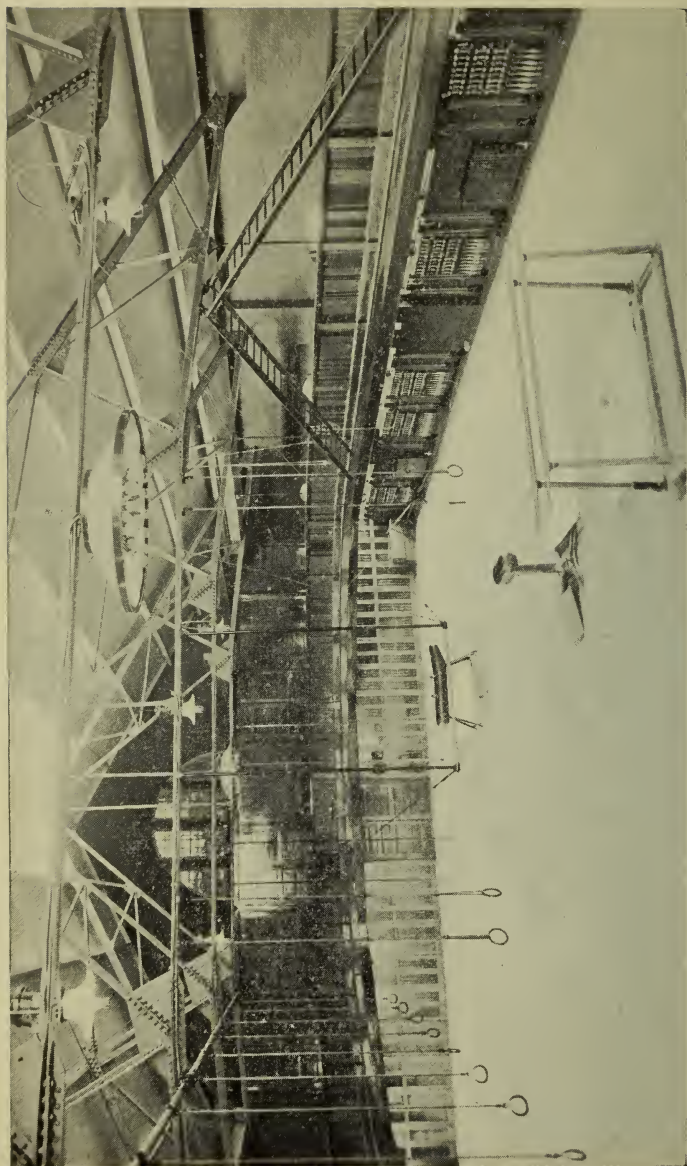
The University of Maine accordingly offers this year for the first time a two weeks' short course in Agriculture for pastors and other social and religious workers who have to do with country people. It will include lectures, demonstrations, and laboratory work on various phases of agronomy, animal industry, horticulture, poultry husbandry, agricultural engineering, and farm management. Proper attention will also be given to such questions as farm sanitation, agricultural literature, and the rural school.

This course will be given July 10—21, 1911. Detailed information about the course may be had by addressing the College of Agriculture, University of Maine, Orono, Maine.

RELATION OF THE SUMMER TERM TO THE EDUCATIONAL
SYSTEM OF THE STATE

It is believed that the work of the department of Education will prove of great value to the Superintendents from Maine and other states who may register for it. The work is arranged so that a complete course of six weeks is given in this subject.

It may be noted here that the summer sessions to be held under the supervision of the Department of Public Schools will no longer give courses for teachers in secondary schools but they will limit their work entirely to that of the grammar grades. A circular issued by the State Superintendent announcing this fact calls attention to the advantages to be given Maine teachers in attending the summer session of the University and also to the fact that such work is no longer duplicated elsewhere in the State of Maine.



The Gymnasium.

COURSES OF STUDY

Courses of study are arranged to give University credit to students who desire it. As a rule a course which meets daily during the summer session is counted as equivalent to a course which meets twice a week during either the fall or spring semester. In some cases, however, it is possible to make a credit equal to that of a course which recites three times a week by doing additional work under the direction of the instructor. In such cases it is usually expected that credit will not be given to students who go over the ground for the first time but it is designed for students who have partially covered the course or who have failed to complete it during the college year. The courses in elementary branches may not be taken for entrance credit by students who have not previously covered the ground, but they may be taken by students who lack something in their preparation, as a supplement to their high school course. Courses which are scheduled for less than five times a week during the summer session will be estimated upon the proper time basis.

In response to a request made by the students of the Summer Term, it has been decided to offer two courses in Mechanics, two courses in Physics, two courses in Calculus, two courses in Analytical Geometry, and two courses in Political Economy. In case these subjects are scheduled during the regular semesters as two or three hour subjects they may be taken by students who have not previously registered for them; but in the case of a three hour subject it is expected that the student will make up the extra work required by somewhat longer assignments.

LABORATORY COURSES

In both the Chemical and Physical Laboratories courses will be offered ranging from college preparatory courses to the advanced courses which are given in the University. An opportunity is thus afforded to students either to make up deficiencies in laboratory work or to pass such a course in advance.

CERTIFICATES

Students who complete one or more courses at the Summer Term will be given a certificate signed by the President of the University and by the State Superintendent of Public Schools. This certificate will state the subject and the number of credits to which it entitles the student. The record of this is kept at the office of the University and also at the office of the State Superintendent of Public Schools. In this way the teachers of the state will have an opportunity to obtain proper recognition of their work at the hands of the State Superintendent and this will doubtless prove of advantage to them in their educational career. Students from out of the state are entitled to the same privileges, including certificates, as those who come from Maine.

LIBRARY ECONOMY

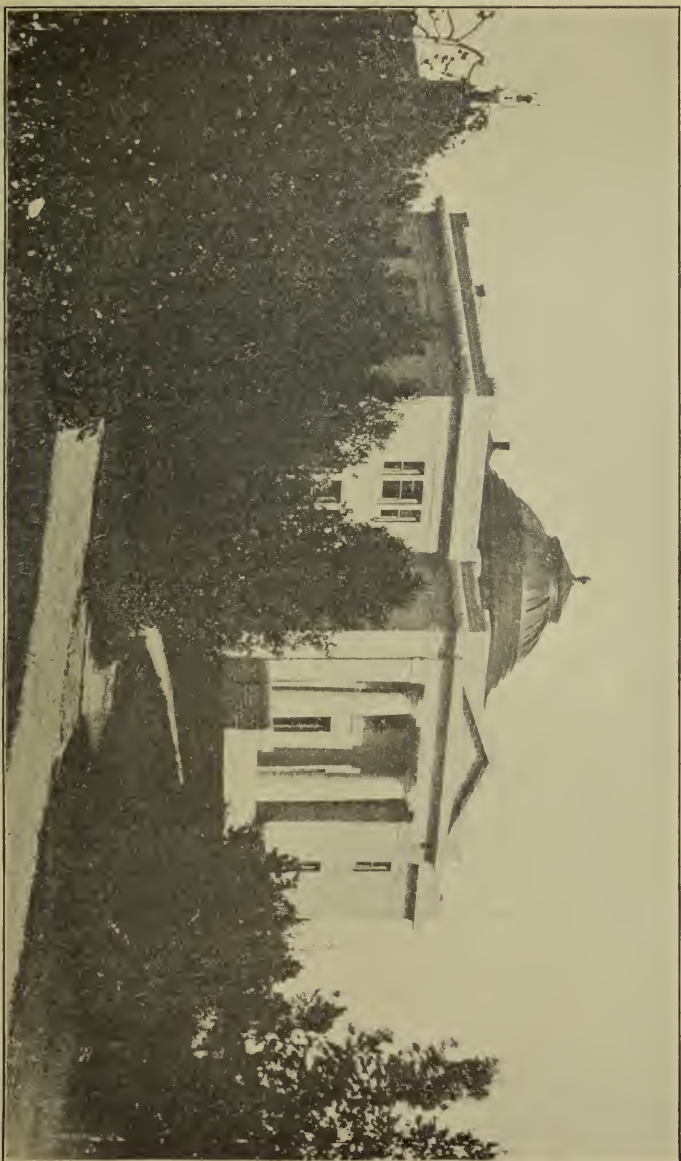
During the summer session of 1910, a course in Library Economy was offered by the State Library Commission. This was in charge of Mrs. Frances Rathbourne Coe, and proved attractive to quite a number of Maine Librarians. It is expected that this course will be offered this year with Mrs. Coe as instructor. As the work in this department is provided for by a legislative action, it is impossible definitely to announce at this time that the course will be offered. It is expected, however, that the work will be resumed and special circulars will be issued by the Commission descriptive of the work as soon as it is decided to continue it. Mrs. Kate Clarke Estabrook, Orono, Maine, is the President of this Commission and may be addressed by anyone who desires more definite information on this subject. The University has no connection in any way with the Library Course other than to give the use of rooms in the Library to the class, and to place at its disposal material required for illustrative purposes.

LOCATION

There are few places in the United States where so fine a summer climate is combined with such educational advantages as are offered at the University of Maine. The town of Orono is an attractive place of genuine New England characteristics, free from the noise and dirt of the large cities.

It is located on the Maine Central Railroad, eight miles from Bangor. It has an hourly railroad connection and a half hourly trolley connection with this city. Students coming from a distance will find a steamboat trip from Boston desirable and will enjoy a beautiful sail up the Penobscot river. From Bangor the electric cars of the Bangor Railway & Electric Company run through the University campus.

The University grounds contain about 360 acres and include a beautiful campus with hundreds of fine shade trees and thousands of shrubs and flowering plants. The Stillwater river, a branch of the Penobscot, bounds the campus on the west, and a large tract of woods lies to the east. On the south is to be seen a beautiful range of hills and 50 miles to the north stands Mt. Katahdin, which may be clearly seen from some of the university buildings. On the campus are about 30 university buildings, including dormitories for men and women, recitation halls, laboratories, library, and gymnasium.



The Library.

COURSES OF INSTRUCTION

AGRICULTURE

PROFESSOR SIMMONS:

Realizing the benefits to be derived from a study of the principles of Agriculture, Maine has seen fit to ask of the teachers in her public schools that they shall be able to give instruction covering some of the more elementary principles of the subject.

In response to the demand thus created for the training for this work, the University of Maine has planned for the Summer Term a course of study and laboratory experimentation that will give information on the subject matter to be taught and also present methods by which the principles underlying this subject may be demonstrated and presented before the pupils in the public schools. *Five hours a week* will be devoted to classroom work and *ten hours* to laboratory practice.

A study of the most common soils will be made. The origin, care, and improvement of soils will be discussed. The preparation of plant seed beds, the selection of seed, the testing of the germinating power of seeds, the sources of plant food, the conditions favorable to the growth of plants, and their harvesting and preservation, will be considered. A study of the life history of some of the common insect pests about the farm, with the methods for protection from their attacks, and the eradication of weeds, will be given attention.

Lectures showing the importance of the rotation method of conducting farming operations, and the advantages of different systems of farming will be given. The importance of animal industry, and particularly the dairy interests of the State, will be emphasized.

Laboratory experiments adapted for use in the school-room will be given. Particular attention will be given to this feature of the work.

CHEMISTRY

PROFESSOR EASLEY; MR. BURGHART:

1. General Inorganic Chemistry.—A review of the classroom work of the freshman year. Experimental lectures and recitations. *Five times a week.*
2. A modification of course 1 will be arranged for those students who wish to review elementary chemistry before taking the examination for entrance to the University.
3. Methods of Laboratory Manipulation.—A course of interest to teachers of the sciences and those expecting to engage in commercial laboratory work. Glass bending, blowing, cutting, beveling, boring, and annealing. Grinding of stopcocks, sealing of wires into glass and repair of glass apparatus. Soldering of the more common metals. Methods of labeling. Stains, varnishes, and lacquers for wood and metal apparatus. Setting up of apparatus. *Six hours of laboratory work each week.* Given in even years, not offered in 1911.

4. Physical Chemistry.—Lectures on selected chapters of the subject touching upon the following phases: molecular structure, the mass law, the theories of solution and their applications, especially along the line of electro-chemistry. *Five times a week.*

The laboratory is well equipped with physico-chemical apparatus which may be used by those who desire to secure an insight into the methods of this branch of chemistry. Given in odd years. Offered in 1911.

5. Organic Chemistry.—An elementary course in the subject open to those who have had General Chemistry. *Five times a week.* Given in even years. Not offered in 1911.
6. Laboratory work in general chemistry and in analytic chemistry will be arranged according to the needs of those attending the summer term.

DOMESTIC SCIENCE AND ELEMENTARY DOMESTIC ART

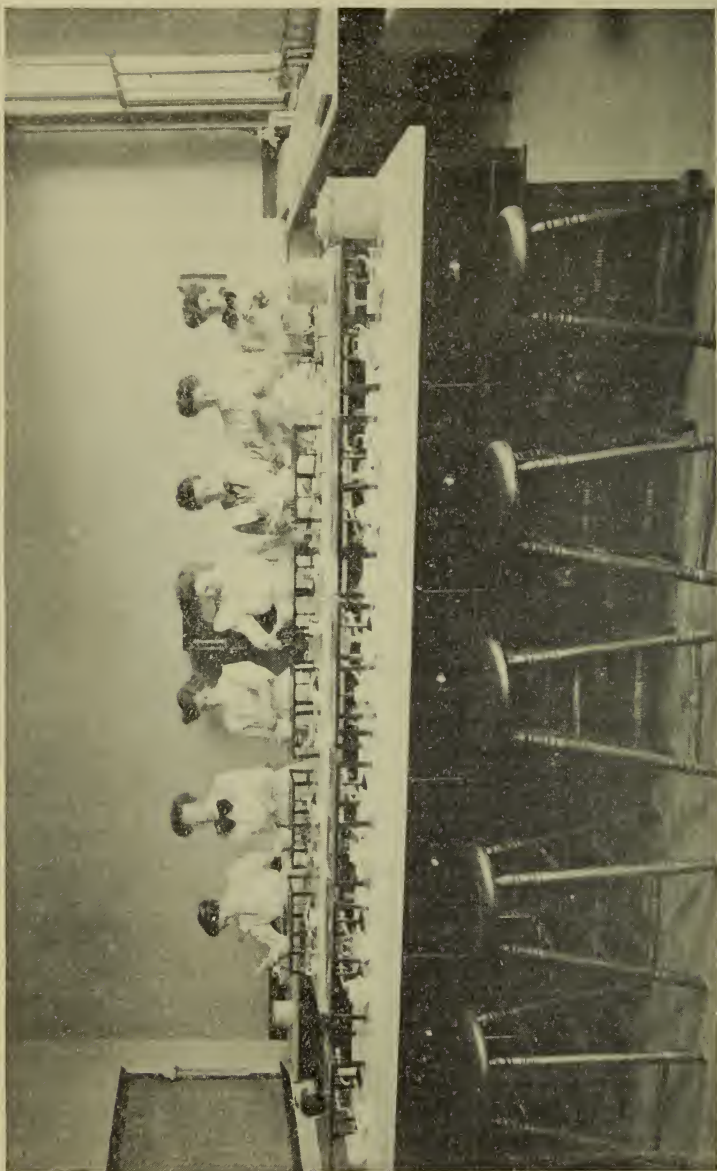
Professor Palmer:

1. Cookery.—The course in cookery consists of the teaching of fundamental principles. It includes work with vegetables, cereals, meats, eggs; canning; jelly making; dishes for desserts; salads. At least one meal will be prepared and served in the dining room of the department. *Five hours laboratory per week; two hours recitation.*
2. Invalid Diet.—This course gives practical lessons in the preparation of dishes to be served invalids. Milk and eggs receive special consideration. Some of the most common diseases are discussed as to symptoms, treatment, and diet. *Three hours per week; two hours recitation.*

OR, Infant Diet.—This work is taken up similarly to the invalid diet. The food for a child under two years is studied most carefully. Dr. Emmet Holt is the chief authority consulted. Diet for children during school age is touched upon. *Four hours laboratory; one hour recitation.*

3. Sewing.—The elemental stitches are taught by practical application. Hemming, overhanding, outlining, hemstitching, running stitch, back stitch, button holes, gathering, placket making. *Three recitations per week; laboratory.*
4. Laundry Work.—Removal of stains is the subject first considered. The actual work of washing and ironing table linen, body linen, flannels, silks, colored dresses, towels, and stockings, laces, and also the making of soap. *Three hours per week laboratory; one hour recitation.*

OR, Household Economics.—This course pertains to the care and order of the house and its furnishings; cleaning of glassware, silverware, brass, pewter, etc.; sweeping and dusting; con-



Class in Domestic Science.

struction and proper care of a refrigerator and a stove. *Three hours per week laboratory; one hour recitation.*

Laboratory fees will be charged for the cookery and diet courses; \$5 for cookery; \$3 each for the diet courses. Those not regularly registered in the summer term will pay \$10 for the cookery, and \$7 each for the diet courses.

ECONOMICS AND SOCIOLOGY

PROFESSOR SPRAGUE:

MONEY AND BANKING.—An introductory course to the study of money, banking, and finance. The history of money and the principal forms of currency used in the leading countries; the principles and workings of the various banking systems of America and foreign countries; the monetary history of the United States. Required of junior engineers and all who take course 2b. (See catalog.) Text-book and lectures. This course is 2a in the catalog.

Political Economy, as described under "Ec 1a" in the general catalog, will be offered as a substitute for "Money and Banking" if enough students to form a class should desire it.

SOCIOLOGY.—This course is devoted to the study of the evolution of society and social institutions, the family, religious organisms, the state and property, and such current social problems as divorce, criminality, and prison reform, poverty and its relief, etc. General sociological theory will occupy the last weeks of the term. Lectures, readings, and discussions. This course is Ec 3a in the catalog.

ANTHROPOLOGY.—This course, as described in the general catalog under Ec 3b, will be offered as a substitute for Sociology if it should be desired by a sufficient number of students.

BUSINESS LAW. This course aims to acquaint the student with those legal principles and practices which are essential to a business life and with which every active citizen should be familiar; rights, contracts, agency, partnerships and corporations, bailments, guaranty, insurance, etc. Text-books, readings, and discussions. This course is Ec 6 in the catalog.

Every reasonable effort will be made to accommodate students who wish to do work in this department, and, as far as the time of the instructor allows, changes can be made in the courses to suit the convenience and needs of the ones desiring to take them.

EDUCATION

PROFESSOR HOCKENBERRY:

1. Principles of Education.—Among the topics to receive treatment are the following:

- (1) The great cultural eras in human history.
- (2) From unconscious to conscious evolution.
- (3) The conception of the educative process.

- (4) The elements of the educative process.
- (5) The evaluation of these elements.
- (6) The social nature of education.
- (7) The state and education.
- 2. Method in Instruction.—I. General Method.
 - (1) The conception of instruction.
 - (2) Various views of instruction and the recitation.
 - (3) The philosophy of the instruction process.
 - (4) Herbart's place in this development.
 - (5) The five formal steps.
- II. Special Method.
The application of these principles to several studies.
- 3. Child Study.—
 - (1) The significance of the child study movement.
 - (2) The literature of the subject.
 - (3) The laws of growth; rhythms; nascent periods.
 - (4) The meaning of health in body and mind.
 - (5) Several such subjects as the senses and the sense organs, perception, imagination, reasoning, language, and the birth of the moral sense will be treated as the needs of the class may demand or its interests suggest.

NOTE.—In all this work in education the instructor will seek to combine various methods of treatment, using the lecture, reports, discussion, formal written reports.

ENGLISH

PROFESSOR GRAY; MR. PRINCE.

- 1. Two courses in preparatory English.—The work is designed for two classes of students; (1) those who have entrance credits to make in this department; (2) those who expect to teach the subjects in High Schools.
 - a. English Composition. The purpose of this course is to give a thorough drill in correct writing. Special attention will be given to spelling, grammar, punctuation, sentence, and paragraph formation. *Three hours a week.*
 - b. English Literature. A careful, yet necessarily rapid, study of Shakespeare's *Macbeth*, Milton's *Lycidas*, Comus' *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, and Macaulay's *Life of Johnson*. *Five hours a week.*
- 2. English Composition and Rhetoric.—The work in this course is similar to that of the fall semester of the freshman year in the University. It consists of the study of text-books, discussions of principles and methods, and practice in writing. The written work, which is based largely upon the personal observations and experiences of the student, is discussed before the class in order to give practical illustration of principles and methods. Teachers will obtain from this course a famil-

ilarity with the methods of teaching English composition followed in the University, and special effort will be made to meet their needs. The text-books used will be Woolley's *Handbook of Composition*, Carpenter's *Model English Prose*, Gray's *College Theme Tablet*. *Five hours a week*.

3. English Composition.—The work in this course is similar to that of the spring semester of the freshman year in the University. The theoretical work consists in a study of the more elementary principles of exposition and argumentation. Practice in making outlines and briefs; themes and six essays. This course will be given if a sufficient number elect it. *Five hours a week*.
4. Nineteenth Century Literature.—This course consists of a study of the social and literary impulses of the early nineteenth century, and considerable reading in such prose writers as Carlyle, Emerson, Newman, Ruskin, Arnold, and Stevenson; and in such poets as Wordsworth, Coleridge, Byron, Shelley, and Keats.
5. The Development of the Drama.—The origin and growth of the drama is traced down to the closing of the theatres. Typical plays are read and discussed. If there is time, an early, and a late play of Shakespere will be read. Not given in 1911.
6. Shakespere.—This course includes introductory lectures on the life and art of Shakespere with a study of an early and a late comedy, and an early and a late tragedy. If there is time, lectures and collateral reading on the stage and the Elizabethan people. *Five hours a week*.
7. Old English (Anglo-Saxon).—This course consists of a study of English literature between the 8th and the 12th centuries. Selections from Anglo-Saxon prose and poetry are read with attention to grammar, phonology, the relation of the Anglo-Saxon to modern English, archaeological, historical, and literary interests. This course is offered especially for those who intend to teach English, and will be given if a sufficient number elect it.

FRENCH

MR. RAICHE; MADAME RAICHE:

- 1 a. Elementary Course.*—This course is intendent for beginners. The text-book used will be Frazer and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 1-73.
- 1 b. Continuation of Course 1 a.†—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 73-128; Rambeau's *French Reader* (Henry Holt & Co.).
- 1 c. Continuation of Course 1 b.‡—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath

& Co.), pp. 337-344; Rambeau's *French Reader* (Henry Holt & Co.).

2. Intermediate course.—This course is intended for those who have already the required number of points for Entrance French, and who wish a course in French that may be counted towards a bachelor's degree. The text-books used will be Augier and Sandeau's *Le Gendre de M. Poirier* (American Book Co.); France's *Le Livre de mon ami* (Henry Holt & Co.); Gasc's *Concise Dictionary of the French and English Languages* (Henry Holt & Co.), or Clifton & McLaughlin's *New Dictionary of the French and English Language* (Wm. R. Jenkins Co.). Students should bring with them their grammars.
3. Conversational French.—A course designed to familiarize the student with the common French words representing affairs in daily life. Conducted by Madame Raiche. Three times a week.
4. Rapid Sight Reading.—A course for students who are sufficiently advanced, will be given in the rapid reading of a large amount of French prose and poetry. Conducted by Madame Raiche. Twice a week.

GERMAN

DOCTOR DRUMMOND:

1. Elementary Course.—For those who wish to acquire or review the essentials of German grammar and the foundations of a German vocabulary. Text-books; Whitney's *Brief German Grammar* (H. Holt & Co.); Grimm's *Kinder-und Hausmarchen* (D. C. Heath & Co.).
2. Second Year German.—This course is designed for students who have completed a year's work in German or for such teachers as may wish to review their work in this department.
3. Conversational German.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs. Twice a week.
4. German Literature.—A brief course of lectures covering a period of German literature. This course is designed for advanced students. Three times a week.

Other advanced courses in German may be substituted for Courses 2 and 4 if they seem better adapted to the needs of the students.

*The requirements for Entrance French may be met by taking Courses 1a, 1b, 1c in consecutive years.

†Students who already have two of the four points required for Entrance French may complete their requirements during one Summer Term by taking courses 1b and 1c.

HISTORY

PROFESSOR COLVIN :

- 1a. American History and Government.—A brief course of two recitations a week, designed to meet the needs of those students whose work in the secondary schools has not prepared them for entrance to the University. No University credit is given for this course.
- 1b. English History.—This course, which will be given three times a week, has a purpose similar to that of 1a.
2. United States History.—This course will be open to regular undergraduate students, and will cover the period since the close of the Mexican War. Five hours.
3. Primarily for Graduates. A course will be offered for graduate students and others who are prepared to take it. The subject will be determined by the previous work of the students who desire to elect it. Five hours.

MATHEMATICS AND ASTRONOMY

PROFESSOR HART; PROFESSOR HAMLIN; MR. REED:

1. High School Algebra.—A course intended for teachers in preparatory schools and covering the second year's work. Especial attention will be given to the methods of presenting this subject and those topics will be emphasized that are most important in preparation for college work. Candidates for admission to the University who are deficient in a part of their preparation in algebra are also advised to take this course.
2. Plane Geometry.—A review of the more important theorems with practice in the demonstration of original propositions and in the solution of numerical exercises. For teachers in preparatory schools and for candidates for admission who are slightly deficient in geometry.
3. Solid Geometry.—This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Stone and Miller's Solid Geometry will probably be used as the text-book, but Phillips and Fisher's, Wells's, and other books will be used for reference.
4. Plane Trigonometry.—The solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which may be useful for reference.
5. College Algebra.—The theory of quadratic equations, the binomial theorem, and so much of the regular freshman course in alge-



Oak Hall.



Mt. Vernon House.

bra as time will permit. Text-book to be selected at the opening of the term.

6. Analytic Geometry.—A brief course covering the elements of this subject.
7. Differential and Integral Calculus.—A course intended for teachers in preparatory schools, who wish to gain a knowledge of the elements of this subject.
8. Descriptive Astronomy.—Lectures accompanied by work in the observatory.
9. Analytical Geometry, the equivalent of course Mathematics 6b, in the University catalog.
10. Calculus, the equivalent of course Mathematics 8 in the catalog.
11. Mechanics, the equivalent of course Mechanics 5 in the catalog.
12. Mechanics, the equivalent of course Mechanics 6 in the catalog.

Note:—Nine of the above courses will be given, the choice to be determined by the number of students electing.

Courses 9, 10, 11 and 12, being review courses, may be taken only by those who have previously pursued the subject.

LATIN

PROFESSOR CHASE:

The Latin Department offers two distinctly different lines of study, intended to meet the needs of three classes of students.

1. For teachers of Latin, and for students wishing to gain entrance credits in Latin. One course is offered in Cicero and one in Cæsar's Gallic War. In these two courses various questions connected with the teaching of Latin will be discussed, such as questions of spelling and pronunciation, of grammatical forms and inflections, of syntax, prosody, etc.; also questions of bibliography, methods of translation, history, mythology, literature, and the various aids to the elucidation of the authors studied, together with the fundamental principles of the Latin language.
2. For students who desire college credits looking to the B. A. degree. It is the plan of the department to offer a double course that shall cover the work of an entire college semester and be equivalent to that required for one college credit, and to vary this course from year to year so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. For the summer 1911 it is proposed to offer a course in Pliny and Tacitus or a selection from Cicero's philosophical works if a majority of the class request it. This will be equivalent to the work offered for the second semester of the freshman year. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

PHYSICS

PROFESSOR STEVENS; PROFESSOR WOODMAN:

1. An elementary laboratory course.—

This includes the list of experiments adopted by the Maine colleges for admission in Physics.

2. Advanced laboratory courses.—

Work in any laboratory course offered in the University may be taken by students in the Summer Term who are properly qualified.

3. College Physics.—A course based upon those parts of Crew's text-book in Physics which treat of mechanics, light, and sound. This course may be taken for credit only by students who have pursued the subject for a regular semester at the University.

4. College Physics.—A course based upon those parts of Crew's text-books in Physics which treat of electricity and heat. This course may be taken for credit by University students who have covered the ground in Physics 2, but have failed in the subject.

5. High School Physics.—A rapid survey of the ground covered in high school, based upon Millikan and Gale's text-book. This course is designed to meet the needs of teachers in high schools and it may be taken as a rapid review by students who have covered the ground in high school but have failed to pass college entrance examinations.

LECTURES

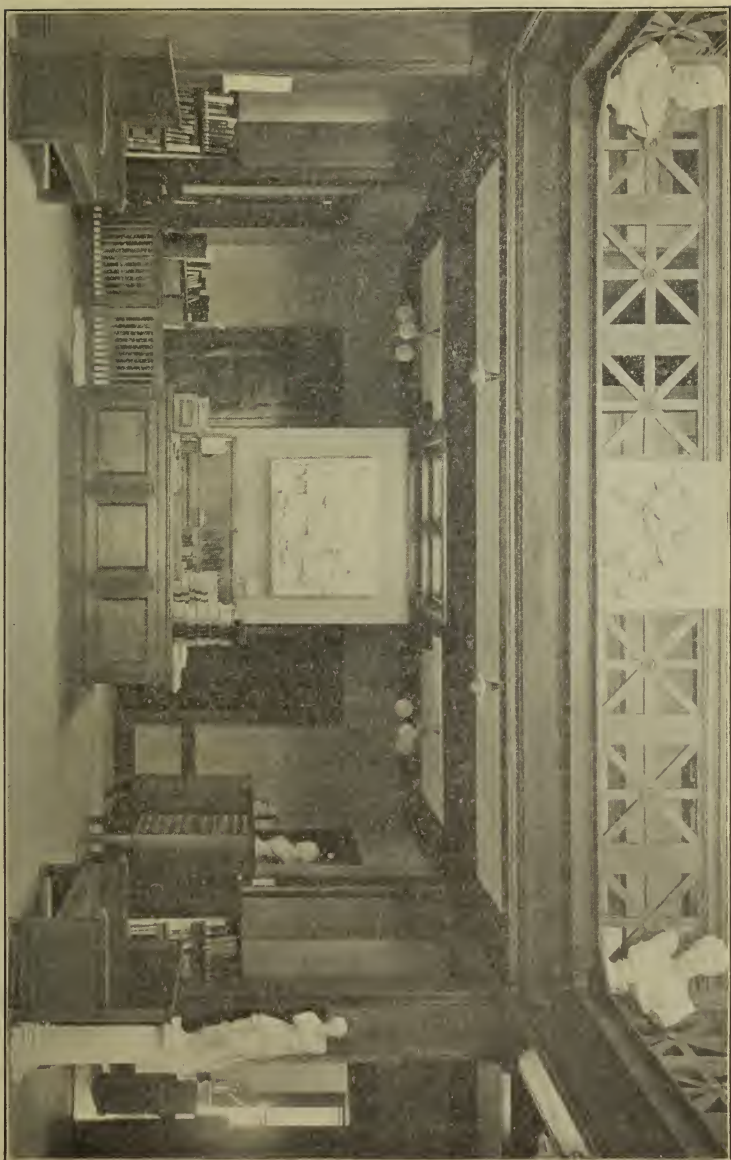
A series of evening lectures will be given by members of the Faculty of the University and others on subjects of general interest to the student body and to the public. These lectures are free to those who wish to attend them, whether members of the Summer Term or not.

VESPER SERVICES

A brief religious service is conducted each Sunday at 4 o'clock in the Lecture Hall in the Library. This consists of a song service and an address.

LIBRARY

Throughout the Summer Term, the University library of 43,000 volumes, and the reading room containing about 300 periodicals and the Maine daily papers, will be open from 9 A. M. to 12 M. and from 2 P. M. to 5 P. M. daily, except Saturday afternoon and Sunday. The library privileges ordinarily accorded the university students, including the home use of books, will be extended to the students in the Summer Term.



An Interior View of the Library.

LABORATORIES, MUSEUMS, AND OBSERVATORY

The laboratories belonging to the departments of physics and chemistry will be available for use of the students. In the physical laboratory there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University. All necessary apparatus is supplied to the student without charge.

In the laboratories a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The museum is illustrative of the rocks, flora, and fauna of Maine, and will be open at stated periods for the use of the students.

The observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

EXPENSES

Tuition for the term of six weeks, covering all charges for instruction up to fifteen hours a week, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories:

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

An additional charge of \$1 an hour is made for registration in excess of fifteen hours a week.

Rooms may be had in the Mt. Vernon House, the woman's dormitory, or in Oak Hall, a men's dormitory, for \$1.00 a week for each person. Students desiring to occupy a room alone are charged \$2.00 a week. Rooms in the new dormitory will be available for men students at prices varying with the kind of room desired. Board may be obtained in the dining room of the new dormitory, Hannibal Hamlin Hall, for \$4.00 a week.

In the courses in Domestic Science and Art a fee of \$10 is charged students who register for the course in cookery alone and \$7 for those who register for the course in diet alone. Regular students of the summer term who have paid their tuition fee may register for these courses for \$5 and \$3 respectively. *While the evening lectures are open to the public, the privileges of the daily lectures and recitation are not extended to any but registered students.*

RECREATION

Most of the class work will be held during the forenoon, leaving the afternoon and evening free for study and recreation.

On the campus are several excellent tennis courts. The neighboring country affords many attractive excursions, on foot by bicycle, carriage, or electric cars. Maine's famous seaside resort, Bar Harbor, is but one

and one-half hours distant by rail from Bangor, while Mourt Kineo and Moosehead Lake are at only a slightly greater distance and easily accessible.

Within easy driving or wheeling distance are Pushaw and Chemo lakes, as well as several attractive mountains.

Steamboat trips from Bangor to the beautiful resorts on Penobscot river and bay are inexpensive and delightful.

IN GENERAL

In order to give six full weeks of instruction and to avoid continuing the session until the heated term, the date of beginning was fixed for June 27th. Students to whom this early date proves inconvenient may register for a five weeks' course on the Monday following the fourth of July. While it is desirable that all students begin at the opening of the course, all possible aid will be given such students as are unable to register until later in the making up of the work which has been omitted.

Prospective students are invited to consult President Aley, or any of the instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers and others who may desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn.

STUDENTS IN 1910.

(Abbreviations indicate subjects taken.)

Adams, Ida Matilda Teacher.	<i>Orono</i>	Ag. Ed. Hy.
Aiken, Edith Nora B. A., Univer- sity of Maine Teacher.	<i>Brewer</i>	Lt. Ms. Rm.
Amadon, Arthur Franklin	<i>Boston, Mass.</i>	Ec. Eh.
Arey, Florian George	<i>Stonington</i>	Lt. Rm.
Atwood, Albert Samuel	<i>Phillips</i>	Ec. Ed.
Avery, Willis Frank Principal.	<i>Limington</i>	Ag. Ht.
Ayer, Elmore	<i>Dorchester, Mass.</i>	Ms. Ps.
Baker, William Asa	<i>Richmond</i>	Eh. Lt.
Barker, Jack Sears	<i>Calais.</i>	Ec. Md. Rm.
Bartow, William Edgar	<i>Utica, N. Y.</i>	Ch. Ec. Md.
Beale, Douglas March	<i>Orono</i>	Ms. Ps. Rm.
Bennett, Melville Allen	<i>Pittsfield</i>	Ph.
Bien, Zeus Sun	<i>Peking, China</i>	Ch. Eh. Hy. Ps.
Bien Zeus Sun Kohkin, Mrs.	<i>Peking, China</i>	Ds. Ed.
Bigney, Edmund Scammon	<i>Greenville</i>	Ch. Ec. Hy.
Blanchard, Franklin Roy	<i>Beverly, Mass.</i>	Ch. Eh. Gm.
Bradbury, Ira Miller	<i>Gorham</i>	Eh. Ms. Rm.
Bradford, Harry Lewis, A. B. Bates College Principal.	<i>Wiscasset</i>	Ag. Ht. Ph.
Browning, Neva Lenora Teacher.	<i>Orono</i>	Ag. Ed. Rm.
Burch, Joseph Francis Principal.	<i>Biddeford Pool</i>	Ec. Ed. Ms.
Chang, Charlotte	<i>Shanghai, China</i>	Ed. Eh.
Chapman, George Bunker	<i>Orono</i>	Ec. Md.
Chapon, Robert Henri	<i>Bangor</i>	Ch. Ms. Rm.
Chick, Margaret Amy Teacher.	<i>Bangor</i>	Eh. Gm. Rm.
Chien, Yih C.	<i>Changehaw, China</i>	Eh. Ms. Rm.
Chilcott, Clio Melissa, A. M., Colby College Teacher.	<i>Bangor</i>	Ds.
Coffey, Ralph Thompson	<i>South Brewer</i>	Lt. Ms. Ps.

Coffin, Celia May	Bangor	Ed. Rm.
Congdon, William Everett	Portland	Rm.
Conley, Albert Davis	Woodfords	Ch.
Cooper, Parker Messer	Jefferson	Hy. Ms.
Coughlin, Fred Thomas	Bangor	Ps.
Crabbe, Everett Edward	Dover	Ec. Eh. Hy.
Cummings, Nathan Clifford	Gorham	Ch. Eh. Ps. Rm.
Danforth, John Henderson	Foxcroft	Eh. Ms. Rm.
Danforth, Stephen Paul	Foxcroft	Eh. Ms. Rm.
Davis, Arthur Evans	Brownville	Ms. Ps.
Davis, Clarion Almado	Collinsville, Ct.	Eh. Hy. Lt.
Davis, Raymond Earl	Rumford	Ch. Ms. Ps.
Dennett, Jean Elwood	Arlington, Mass.	Ch. Eh. Ms.
Derby, Frank Holliday	Revere, Mass.	Ec. Eh. Hy.
Dinsmore, Ernest Leroy, B. A., University of Maine Science Teacher	Auburn	Ch. Ms.
Dinsmore, Mary Crane Teacher.	Auburn	Eh. Rm.
Dixon, Esther Margaret	Southwest Harbor	Ec. Eh. Hy. Rm.
Drake, Mary Adelaide Principal.	Worcester, Mass.	Ec. Eh. Hy.
Eddy, Virginia May	Orono	Lt. Ms. Rm.
Faulkner, Harold Clark	Lynn, Mass.	Ps. Rm.
Faulkner, William Thomas	Curtis Corner	Hy. Rm.
Fisher, Herbert Levi	Charlotte	Ms. Ps.
Fitch, Leroy Allen	East Sebago	Ec. Md.
Foster, Philip	Waterville	Ch. Ms.
Geery, Louis Duncan Tallman	Katahdin Iron Works	Ch. Hy. Ms.
George, Daisy Evelyn Teacher.	Orono	Ag. Ed. Rm.
Getchell, Edward Leonard	Waterville	Gm. Hy. Ps.
Gibbs, Charles Shelby	Rangeley	Ch. Ms. Ps.
Goodier, Edna Amy Librarian and Teacher.	Saco	Eh.
Goodnow, Alden Church	Fairhaven, Mass.	Md. Ps.
Grant, Charles Harold	Bangor	Ec. Ed. Ps.
Gregson, Lawrence Halliwell	Newburyport, Mass.	Ec. Eh. Ms.
Guild, Amy Louise	Providence, R. I.	Ed.
Haley, George	East Brownfield	Ch. Ht.
Hamlin, George Harold	Orono	Ch. Eh.
Haskell, Benjamin	Westbrook	Eh. Ms. Ps.
Hatch, Roy Otis, B. S., University of Maine	Orono	Ch.
Henderson, Robert Raymond	Madison	Ch. Gm. Ms.
Higgins, Oswald Burnett	Sewaren, N. J.	Eh. Gm. Ms.
Hight, George Cecil Superintendent.	Athens	Ed.

Hodges, Ralph Corydon	<i>Richmond</i>	Ms. Ps.
Homans, Harry	<i>North Vassalboro</i>	Ec. Eh. Hy.
Homans, Lois	<i>New York, N. Y.</i>	Ag. Ds. Ht. Ph.
Hurley, Katharine Mary Elizabeth Teacher.	<i>Fall River, Mass.</i>	Ds. Eh.
Hurley, Margaret Theresa Teacher.	<i>Fall River, Mass.</i>	Eh. Rm.
Johnstone, Leslie Ingalls, B. S., University of Maine Instructor.	<i>Milford</i>	Md. Ms.
Johnson, Charles Augustus	<i>Waltham, Mass.</i>	Ed. Gm. Ms.
Jones, Gertrude May Teacher.	<i>Corinna</i>	Rm.
Jose, Frances Elizabeth, A. M., Maine Wesleyan Woman's College Teacher.	<i>Dexter</i>	Eh. Rm.
Keating, Joseph Sylvester, B. S. University of Maine	<i>Red Beach</i>	Ch. Ms.
Kelleher, Katherine Louise Teacher.	<i>Orono</i>	Ag. Ed. Rm.
Kelleher, Marie Therese Teacher.	<i>Orono</i>	Ag. Ed. Hy.
Kelly, Esther Mary Teacher.	<i>Orono</i>	Ag. Ed. Hy.
King, Angie Rose Teacher.	<i>Orono</i>	Ed. Eh. Hy.
Knapp, Lucia Bradford	<i>Duxbury, Mass.</i>	Gm. Hy. Rm.
Libby, Eliza Sands Teacher.	<i>West Buxton</i>	Eh. Ms.
Lougee, George, LL. B., University of Maine, College of Law Principal.	<i>Bangor</i>	Ch. Eh. Ht. Rm.
McBride, Herbert Clayton Grover	<i>Easton</i>	Hy. Ms.
McGee, Maude Ellen Teacher.	<i>Orono</i>	Ag. Ed. Hy.
McManus, Margaret Ellen	<i>Bangor</i>	Ed. Hy.
MacSkimmon, Anna Teacher.	<i>Bangor</i>	Gm. Lt.
Mariner, Hazel Folsom	<i>Milford</i>	Eh.
Maxwell, Edwin Clayton	<i>Palmer, Mass.</i>	Ec. Md.
Merrill, Annie Clifford	<i>Orono</i>	Rm.
Merrill, Harriet Sophia	<i>Orono</i>	Ds.
Merrill, Katharine Buffum	<i>Orono</i>	Ms. Rm.
Morse, George Warren	<i>Bangor</i>	Ms.
Nealey, Leonee Coombs	<i>Bangor</i>	Gm. Lt. Ms.
Newman, George Burgess	<i>Fryeburg</i>	Eh. Rm.
Nickerson, Margaret Elaine	<i>Sorrento</i>	Eh. Gm.

Page, Della Butler Teacher.	<i>No. Newburg</i>	Ag. Ed. Hy.
Peabody, Ellen Holway Teacher.	<i>Machias</i>	Ec. Gm. Lt.
Peaslee, Dana Newton	<i>Lynn, Mass.</i>	Ec. Hy. Md.
Peckham, Frederic Metcalf, A. B., Bates College Teacher.	<i>Leewiston</i>	Ps.
Perkins, Lena Georgia Teacher.	<i>Oxford</i>	Ec. Eh. Hy. Ms.
Perkins, Walter Ezra	<i>Old Town</i>	Ms. Ps.
Perry, Earl Frances	<i>Bangor</i>	Lt. Ms.
Pfaff, Gladys Barbara, A. B., Smith College Teacher.	<i>Bangor</i>	Gm. Rm.
Phelps, Donald Walker	<i>Robbinston</i>	Eh. Ms.
Pope, Morrill Stuart	<i>Last Machias</i>	Ch. Eh. Ps.
Prescott, Glenn Carleton Principal	<i>West Forks</i>	Ag. Ht. Ms. Ps.
Richardson, Douglas Leffingwell	<i>McKinley</i>	Gm. Ms. Ps.
Roberts, George Harley	<i>Brownville Jct.</i>	Ms. Ps.
Rowell, Frank Lester District Superintendent.	<i>Hartland</i>	Ch. Ed. Eh. Ps.
Sawtelle, Donald Wing	<i>Orono</i>	Ms. Rm.
Sawyer, Winfield Fenno	<i>Bangor</i>	Lt. Ms.
Schimmel, Erich	<i>New York, N. Y.</i>	Ch. Ms.
Severance, Amanda Bailey Teacher.	<i>Old Town</i>	Lt. Rm.
Shepherd, Thomas Dudley	<i>Wellesley Hills, Mass.</i>	Ch. Eh. Gm. Rm.
Shine, Laura Ethel Teacher.	<i>Orono</i>	Ed. Eh. Hy.
Simpson, George Stevens	<i>Old Town</i>	Eh. Ch.
Sinclair, Roy Leighton Principal.	<i>Lincoln</i>	Ch. Ed.
Small, Nathan Houston	<i>Belfast</i>	Ec. Ms.
Smith, Edward Henry, B. S., University of Maine Science Teacher.	<i>East Sullivan</i>	Ch. Ps.
Snushall, Mary McLellan, A. B., University of Illinois Librarian.	<i>Springfield, Mass.</i>	Ds.
Snushall, Wilson, A. B., Amherst College Teacher.	<i>Haverhill, Mass.</i>	Ec. Hy.
Snyder, Mabel Frances	<i>Orono</i>	Ag. Ed. Hy.
Stevens, Edwin Henry	<i>Orono</i>	Rm.
Stickney, Charles Edwin	<i>Portland</i>	Ec. Eh. Md.

Stinchfield, Ruth	<i>Danforth</i>	Eh. Ms. Rm.
Stowers, Frances Miriam	<i>Scarsport</i>	Rm.
Studley, Ernest Allen	<i>Rockland, Mass.</i>	Eh. Rm.
Sun, Yuen-fong Ralph	<i>Serchow, China</i>	Ed. Ms.
Sun, Yu-fong Philander	<i>Serchow, China</i>	Eh. Rm.
Thomas, Hayward Stanley	<i>Milo</i>	Ec. Eh.
Thompson, Gladys	<i>Orono</i>	Ms. Rm.
Thompson, Dorothy	<i>Orono</i>	Ms. Rm.
Thurston, Charlotte	<i>West Brookfield, Mass.</i>	Eh. Lt.
Principal.		
Tibbetts, William Herbert	<i>Bangor</i>	Ch.
Teacher.		
Tucker, Samuel Gordon	<i>Howland</i>	Eh. Gm. Hy.
Pastor.		
Verrill, Elmer Russell, A. B.,		
Bates College	<i>Lec</i>	Ec. Hy. Lt. Ps. Rm.
Principal.		
Wadleigh, Jennie Mitchell	<i>Old Town</i>	Gm. Lt.
Waite, Sumner	<i>Portland</i>	Ec.
Wakefield, Oscar Abel	<i>Andover</i>	Ec. Hy. Md.
Walker, Ernest Thaxter	<i>Biddeford</i>	Rm.
Wass, Clifton Ennis	<i>Sangerville</i>	Ed. Eh. Lt.
Superintendent.		
Weeks, Allen Henry	<i>Jefferson</i>	Md. Ps.
Weld, Edith Claire	<i>Old Town</i>	Ec. Eh.
Assistant Librarian.		
Wescott, Clifford Walker	<i>Patten</i>	Ch. Eh. Hy.
Whittier, Harold Kenneth	<i>Leominster, Mass.</i>	Ag. Ed. Eh. Ph.
Wilkins, Blanche	<i>Wilton</i>	Eh.
Teacher.		
Willey, Walter Brown, Jr.	<i>Bangor</i>	Lt. Ms. Rm.
Woods, Leroy Leonard	<i>Wells</i>	Ec. Ed.
Principal.		
Woodward, George Thomas	<i>Lisbon Falls</i>	Ch. Ms. Rm.
Wu, Maen Chang	<i>Canton, China</i>	Gm. Ms. Rm.
Young, Mary Kathleen	<i>Brewer</i>	Ms. Rm.
Teacher.		



A Fraternity House.

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PRESIDENT ROBERT JUDSON ALEY,

Orono, Maine.

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No. 5

THE SUMMER TERM

OF THE

College of Arts and Sciences

OF THE

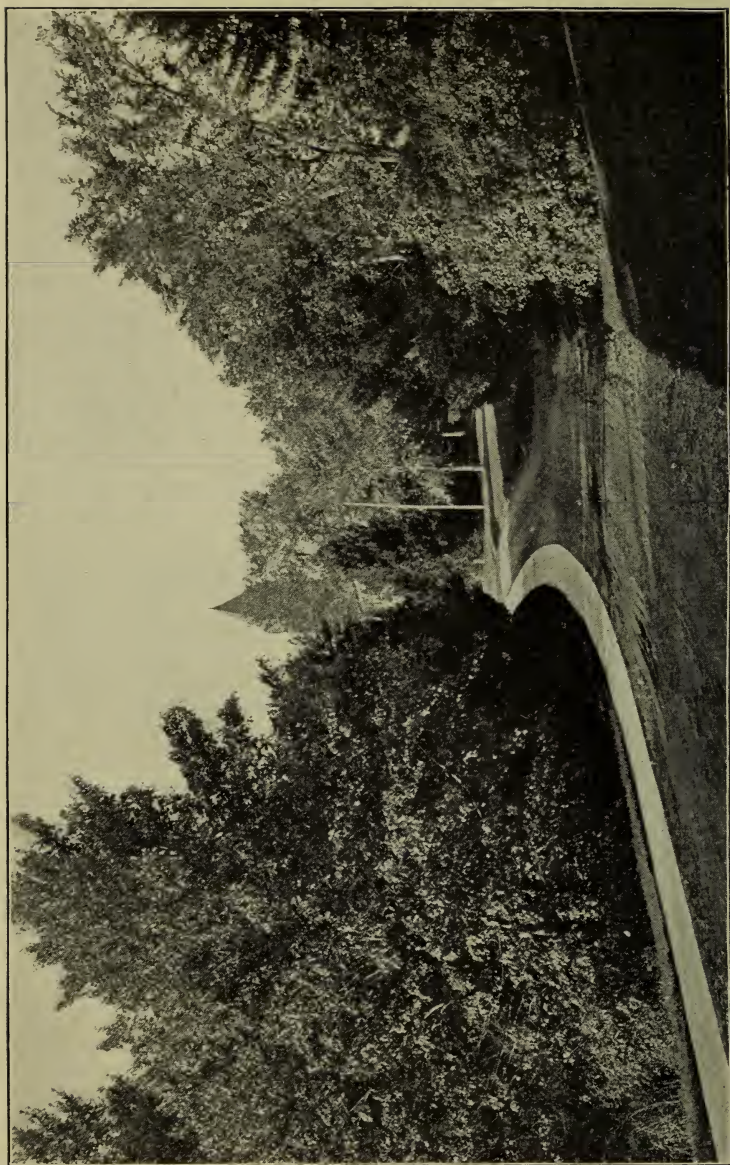
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ENTRANCE TO CAMPUS.

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS

President

A. B., Lawrence, 1879; A. M., 1882; Ph. D., Berne (Switzerland,) 1889; LL. D., Bowdoin, 1902; L. H. D., Lawrence, 1902. Principal of Eau Claire Wesleyan Seminary, 1879-80; Ryan High School, Appleton, Wis., 1882-85; New Orleans Boys' High School, 1885-88; Professor of European History, Indiana, 1891-95; Assistant Professor of History, Chicago, 1895-02; President, Maine, 1902 —.

JAMES STACY STEVENS

DEAN OF THE COLLEGE OF ARTS AND SCIENCES. Physics

B. S., Rochester, 1885; M. S., 1888; M. S., Syracuse, 1889; LL. D., Rochester, 1907. Principal Village School, Jasper N. Y., 1885-6; Instructor in Sciences, Cook Academy, Havana, N. Y., 1886-91; Graduate Student, Chicago, 1895-6; Professor of Physics, Maine, 1891 —. Dean of the College of Arts and Sciences, 1905 —.

JAMES NORRIS HART

Mathematics

B. C. E., Maine, 1885; C. E., 1890; M. S., Chicago, 1897; Sc. D., Maine, 1908. Principal Dennysville High School, 1885-86; Principal Machias High School 1886-87; Instructor in Mathematics and Drawing, Maine, 1887-90; Professor of Mathematics and Astronomy, 1891 —. Dean of the University, 1903 —.

GEORGE DAVIS CHASE

Latin

Harvard, A. B., 1889; Sub-master and teacher of Latin and Mathematics in Bristol Academy, Taunton, Mass., 1889-94; Harvard Graduate School, 1894-97; Harvard, A. M., 1895, Ph. D., 1897; Harvard Traveling fellow at University of Leipzig, 1897-98; Teacher of Latin at Lawrenceville School, Lawrenceville, N. J., 1898-99; Assistant Professor of Comparative Philology, Cornell University, 1899-1901; Instructor in Latin, Wesleyan University, 1901-1902; Associate Professor of Latin, 1902-05; Professor of Latin Language and Literature, University of Maine, 1905 —.

ROBERT JAMES SPRAGUE

History and Sociology

B. A., Boston, 1897; M. A., Harvard, 1900; Ph. D., Boston, 1901. Teacher, Eastern Maine Conference Seminary, 1893-94; Teacher, Maine Wesleyan Seminary 1897-98; Professor of Economics, and Sociology, Knox, 1901-6; Lecturer on Sociology, Bangor Theological Seminary; Professor of Economics and Sociology, Maine, 1906 —.

CAROLINE COLVIN

History

B. A., Indiana University, 1893; Ph. D., University of Pennsylvania, 1901; Student in Europe, 1901-1902; Fellow University of Pennsylvania, 1898-1901; Teacher in Fort Wayne High School, 1893-1898; University of Maine, 1902 —.

ROLAND PALMER GRAY

English

B. A., Columbia University, 1893; M. A., 1907; 1897 and 1899, summer term student, Harvard. Graduate student, Yale, Oxford, and British Museum London. 1893-94. Instructor in English literature, Marmaduke Military Academy, Mo.; 1894-95, Instructor in English, University of Nebraska; 1895-1901, Instructor in English; 1901-05, Assistant professor of English, University of Rochester; 1901-08, Professor of the English language and Literature, Acadia University, Canada; 1908-09, Assistant professor of English, Indiana University; 1909, Professor of English, University of Maine.

RALPH HARPER MCKEE

Chemistry

A. B., Wooster, 1895; A. M., 1897; Ph. D., Chicago 1901. Professor of Mathematics and Chemistry, Carthage College, 1895-00. Graduate student in Chemistry, Wooster, summer of 1896, and at Chicago 1898-1900. University of Chicago Fellow 1899-00. Instructor in Chemistry, Lake Forest College, 1900-01. Professor of Chemistry, Lake Forest College, 1901-09. Professor of Chemistry, Maine, 1909 —.

GARRETT WILLIAM THOMPSON

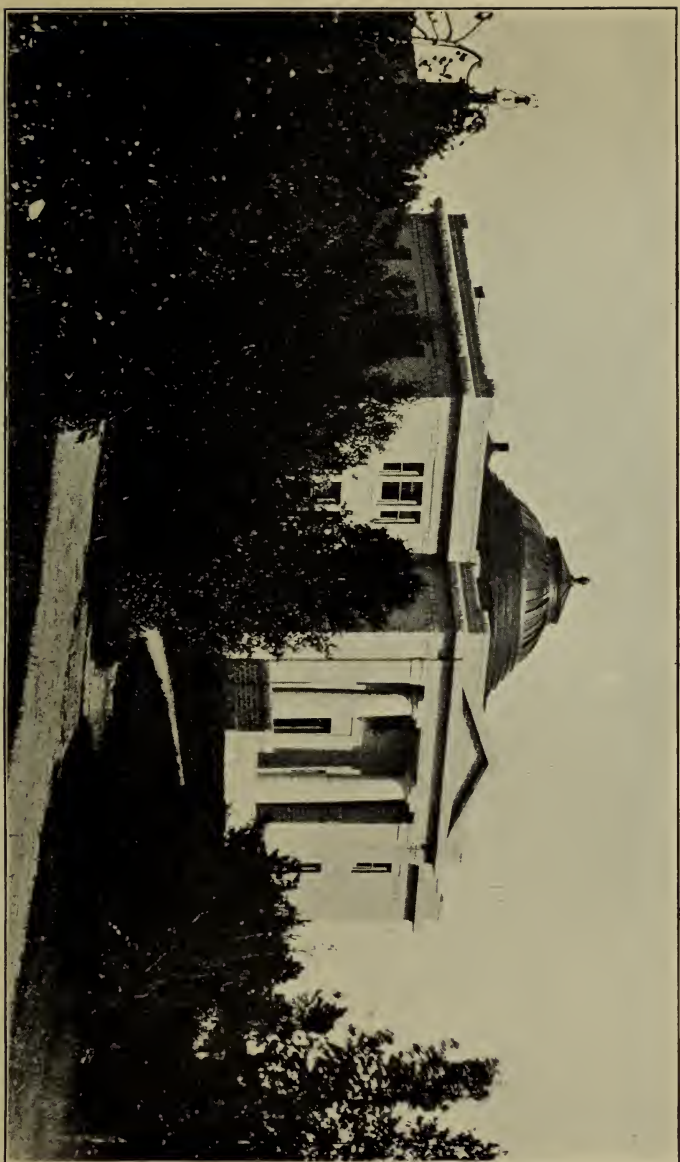
German

A. B., A. M., Amherst; Graduate work, Berlin and University of Pennsylvania; Ph. D., University of Pennsylvania; Headmaster of German, and Vice Principal of Friends' Central School, Philadelphia, Penna.; Instructor at University of Pennsylvania; Professor at Swarthmore College and Franklin-Marshall College; Professor at University of Maine, 1909 —.

LEON EDWIN BELL

Education

A. B., Northwestern University, 1884; A. M., 1887; Graduate student, Harvard, 1893-94; S. T. B., Boston, 1895; Associate President and Professor of Greek and Latin, Vashon College and Academy, Burton, Washington, 1902-04; Vice-President and Professor of Philosophy, University of Puget Sound, Tacoma, Washington, 1904-05; Graduate student, Chicago, 1905-06; Superintendent of City Schools, Bay St. Louis, Mississippi, 1906-07; Professor of Psychology and Education, Summer Normal School, Mississippi Agricultural and Mechanical College, 1907; Professor of Pedagogy and Assistant in Psychology, Pennsylvania State Normal School, Indiana, 1907-09; Professor of Psychology and Pedagogy, Pennsylvania State Normal School, East Stroudsburg, 1909 —.



THE LIBRARY.

HENRY GOUGH BELL

Agronomy

B. S. A., Toronto University, 1905; Assistant Experimental-ist, Ontario Agricultural College, Guelph, Ont., 1905-1907; Assistant Professor of Farm Crops, I. S. C., Ames, Iowa, 1907-1909; Professor of Agronomy, Maine, 1910—.

LEON ELMER WOODMAN

Physics

A. B., Dartmouth, 1899; A. M., 1902. Assistant in Physics, Dartmouth, 1901-2; Instructor in Mathematics and Physics, Nashua, N. H., High School, 1902-4; Instructor in Physics, Maine, 1904-5; Assistant in Physics, Columbia, 1905-7; Fellow in Physics, Columbia, 1907-8; Assistant Professor of Physics, Maine, 1908—.

VICTOR RAY GARDNER

Horticulture

B. S., Michigan Agricultural College, 1905; M. S. A., Iowa State College, 1907. Instructor in Horticulture, Iowa State College, 1905-7; Instructor in Horticulture, Macdonald College, 1907-8; Assistant Professor of Horticulture, Maine, 1908; Acting Head, College of Agriculture, 1909—.

LAURA COMSTOCK

Domestic Science and Art

Buffalo State Normal School, 1895; Pratt Institute, 1909; Teacher in graded schools, 1895-1899; Teacher in German State Normal School, 1899-1906; Stevens Point Normal School, Wisconsin, 1906, 1907; Assistant Professor of Domestic Science, University of Maine, 1909—.

EUGENE LOUIS RAICHE

French

Nicolet College, 1890; Andover Theological Seminary, 1897. Instructor Walnut Hill School, 1901-04; The Allen School, 1902-06; Simmons College, 1906-7; Maine (Summer Term) 1905, 1906, 1909; Browne and Nichols School, Cambridge, 1905; Resident Candidate for the Doctor's Degree, University of Montpelier, France, 1909-10.

HELENE JULIE RAICHE

French Conversation

Ecole Normale de Montbéliard, France, 1889; Instructor, Summit, N. J., 1890-1895; Wellesley College, 1895-1896; Supplied at Bradford Academy, 1896-1897; Wellesley College and Walnut Hill School from 1900 to 1904; Simmons College, 1903-1904; Private schools, Cambridge and Milton, since 1904.

LOWELL JACOB REED

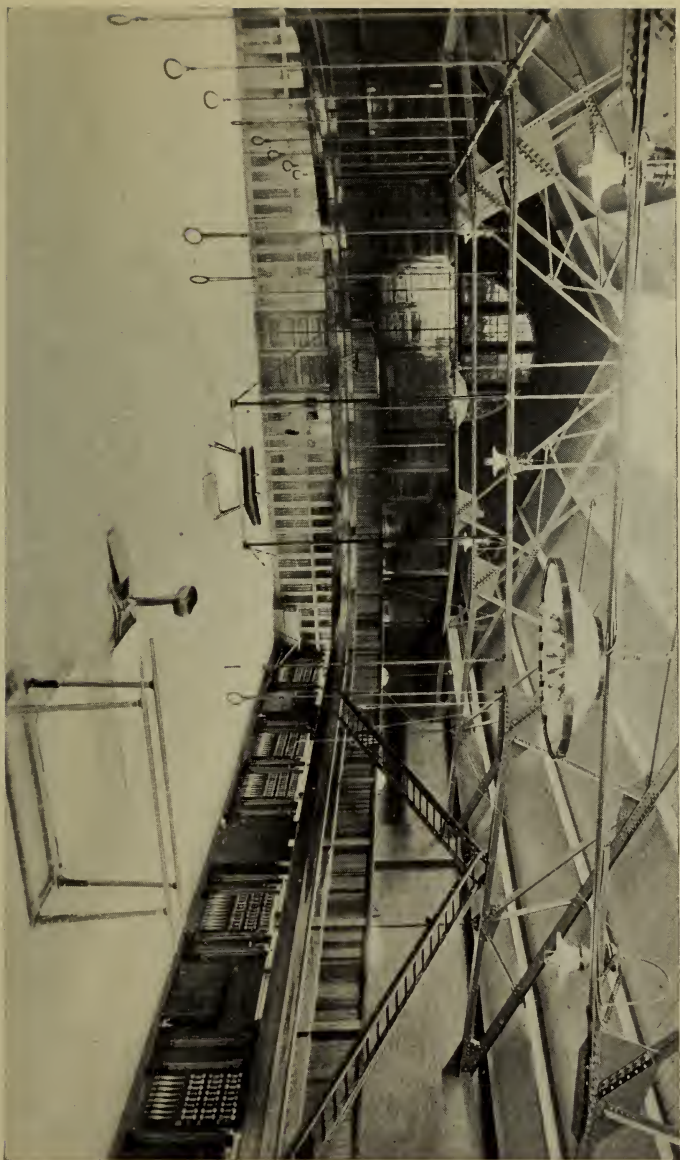
Mathematics

B. S., Maine, 1907; Instructor in Mathematics and Physics, Maine, 1907-8; Instructor in Mathematics, Maine, 1908—.

WALTER EVERETT PRINCE

English

Ph. B., Brown University, 1904; A. M., 1905; Instructor in English, University of Maine, 1905-1910.



GYMNASIUM.

TRUMAN LEIGH HAMLIN

Mathematics

A. B., Western Reserve University, 1899; Professor of Latin, Benedict College, 1899-1901; Teaching Fellow Mathematics, Missouri State University, 1901-1902. A. M., Missouri State University, 1902; Superintendent, Jackson Military Academy, 1902-1909; Instructor in Mathematics, University of Maine, 1909—.

LLOYD MEEKS BURGHART

Chemistry

B. S., Lake Forest University, 1906; In charge of laboratories at Dubuque, Iowa, Chicago, and Pekin, Ills.; Graduate Assistant in Analytical Chemistry, University of Illinois, 1909, Instructor, Maine, 1910—.

RALPH KNEELAND JONES

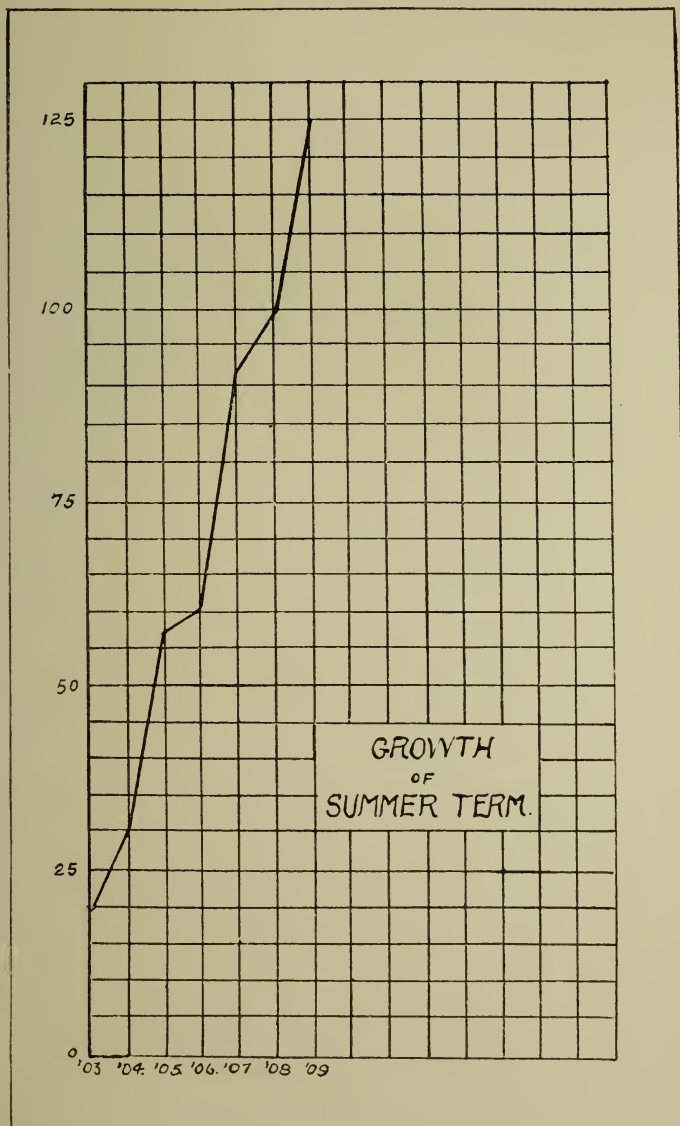
Librarian

B. S., Maine, 1886. Librarian, Maine, 1897—.

GENERAL INFORMATION.

The Summer Term of the University of Maine was established under its present conditions in 1903. It has had a gradual and encouraging growth and has enrolled among its members a large number of teachers and superintendents from Maine and other states. The courses are for the most part given by heads of departments of the Faculty of the College of Arts and Sciences of the University of Maine. In the cases where it has been necessary to go outside the Faculty, an effort has been made to maintain an equally high standard of efficiency. The majority of the courses offered are of college grade, but there are a few courses which are designed to meet the wants of students in preparatory schools who have not quite completed their collegiate preparation. By consulting the list of courses offered it will be seen in what manner this may be done in the various departments.

The following plot shows the growth of the summer term since its organization :



PURPOSES.

The Summer Term of the University of Maine is designed to meet the needs of three classes of persons:

Teachers

From the beginning the Summer Term has endeavored to meet the needs of the teachers of Maine.

There are a large number of teachers who were obliged to begin their work without the opportunity of a college training and such teachers feel themselves hampered by the lack of thorough preparation. While it is not expected that the short time spent at the Summer Term of the University will compensate for this lack, it is, nevertheless, true that a large amount of information and inspiration may be received by attendance at this session. The work is especially helpful to those who are planning to go to college at some future time and who wish to obtain, in advance, a certain amount of college credit; or to those who have partially completed a college course and wish to continue it with as little break in their work as possible. Quite a large number of students have availed themselves of this opportunity to supplement their college work by work done at the Summer Term.

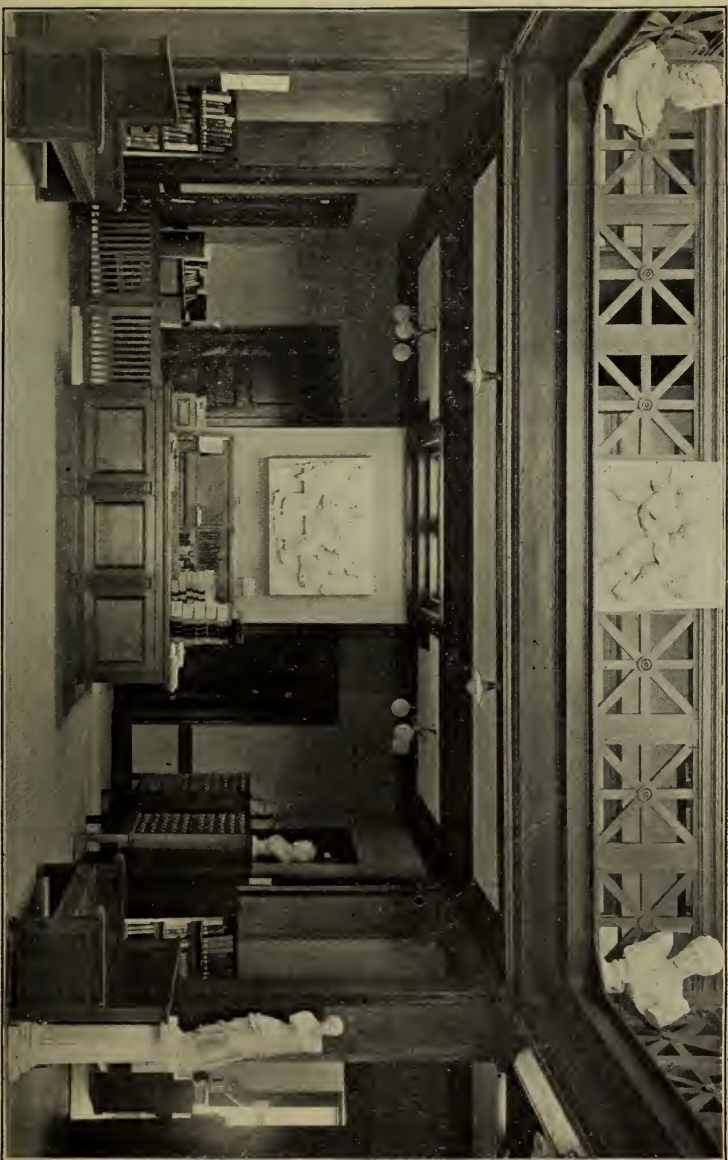
College Students

Another class of persons for whom the Summer Term is profitable are students of the University and other colleges, who, for various reasons, are in arrears in their work, or who may wish to gain additional credits in their course. For such students the opportunity is offered along the lines of the elective subjects which they would regularly take in their college course.

The attention of students is called to the additional courses in Mathematics, Physics, Mechanics, and Economics which are to be offered this year.

Preparatory Students

While the Summer Term is designed primarily for students of college grade, there are certain courses offered each year, which are designed to be of value to students in preparatory schools who have not quite completed their college entrance requirements. Courses for such students are offered in English, French, German, Latin, Physics, Chemistry, and Mathematics.



INTERIOR OF THE LIBRARY.

SUMMER COURSE IN AGRICULTURE AND HORTICULTURE.

At the urgent request of teachers in Maine and elsewhere the addition of a course in the sciences of Agriculture and Horticulture has been made to the summer courses offered by the College of Arts and Sciences. The aim of this course is to present in as thorough a manner as is possible in six weeks the principles underlying the management of our soils, crops, and fruits; and at the same time to show how these fundamentals in agricultural practice may be taught in the secondary schools. There will be five lectures each week and ten hours spent in the laboratory. In addition to the regular laboratories of the departments of Agronomy and Horticulture, the fields, gardens, and orchards of the College and neighboring farms at this season of the year offer special laboratory facilities. Special attention will be given to the establishment of a school garden where each student will plan and develop his own plot.

RELATION OF THE SUMMER TERM TO THE EDUCATIONAL SYSTEM OF THE STATE.

It is believed that the work of the department of Education will prove of great value to the Superintendents from Maine and other States who may register for it. The work is arranged so that a complete course of six weeks is given in this subject.

It may be noted here that the summer sessions to be held under the supervision of the Department of Public Schools will no longer give courses for teachers in secondary schools but they will limit their work entirely to that of the grammar grades. A circular issued by the State Superintendent announcing this fact calls attention to the advantages to be given Maine teachers in attending the summer session of the University and also to the fact that such work is no longer duplicated elsewhere in the State of Maine.

COURSES OF STUDY.

Courses of study are arranged to give University credit to students who desire it. As a rule a course which meets daily during the summer session is counted as equivalent of a course which meets twice a week during either the fall or spring semester. In some cases, however, it is possible to make a credit equal to that of a course which recites three times a week by doing additional work under the direction of the instructor. In such cases it is usually not expected that credit will be given to students who go over the ground for the first time but it is designed for students who have partially covered the course or who have failed to complete it during the college year. The courses in elementary branches may not be taken for entrance credit by students who have not previously covered the ground, but they may be taken by students who lack something in their preparation, as a supplement to their



DORMITORY FOR WOMEN.



DORMITORY FOR MEN.

high school course. Courses which are scheduled for less than five times a week during the summer session will be estimated upon the proper time basis.

In response to a request made by the students of the Summer Term, it has been decided to offer this year, two courses in Mechanics, two courses in Physics, two courses in Calculus, two courses in Analytical Geometry, and two courses in Political Economy. In case these subjects are scheduled during the regular semesters as two or three hour subjects they may be taken by students who have not previously registered for them; but in the case of a three hour subject, it is expected that the student will make up the extra work required by somewhat longer assignments.

LABORATORY COURSES.

In both the Chemical and Physical Laboratories courses will be offered ranging from college preparatory courses to the advanced courses which are given in the University. An opportunity is thus afforded to students either to make up deficiencies in Laboratory work, or to pass such a course in advance.

CERTIFICATES.

Students who complete one or more courses at the Summer Term will be given a certificate signed by the President of the University and by the State Superintendent of Public Schools. This certificate will state the subject and the number of credits to which it entitles the student. The record of this is kept at the office of the University and also at the office of State Superintendent of Public Schools. In this way the teachers of the state will have an opportunity to obtain proper recognition of their work at the hands of the State Superintendent and this will doubtless prove of advantage to them in their educational career. Students from out of the state are entitled to the same privileges, including certificates, as those who come from Maine.

LIBRARY ECONOMY.

The State Library Commission has established a course in Library Economy to be held at the University of Maine from July 5th to July 26th. This department is in charge of Miss Frances L. Rathbone, Librarian of the Free Public Library of East Orange, N. J., and a graduate of the Pratt Institute Library School. Application for admission to these courses should be made before June 15th to the President of the Maine Library Commission. As the number of students admitted to this course must be limited, an early application is desirable.

The tuition is free for library workers in the State of Maine, and a small fee will be charged to cover the cost of text-books, catalog cards, and various technical fittings, which may be retained as personal prop-

erty. Students who have registered for the summer term may take these courses in addition to their other work without extra charge.

For information regarding this work address Mrs. Kate C. Estabrook, President of the Maine Library Commission, Orono, Maine.

LOCATION.

There are few places in the United States where so fine a summer climate is combined with such educational advantages as are offered at the University of Maine. The town of Orono is an attractive place of genuine New England characteristics, free from the noise and dirt of the large cities.

It is located on the Maine Central Railroad, eight miles from Bangor. It has an hourly railroad connection and a half hourly trolley connection with this city. Students coming from a distance will find a steamboat trip from Boston desirable and will enjoy a beautiful sail up the Penobscot river. From Bangor the electric cars of the Bangor Railway & Electric Company run through the University campus.

The University grounds contain about 360 acres and include a beautiful campus with hundreds of fine shade trees and thousands of shrubs and flowering plants. The Stillwater river, a branch of the Penobscot, bounds the campus on the west and a large tract of woods lies to the east. On the south is to be seen a beautiful range of hills and 50 miles to the north stands Mt. Katahdin, which may be clearly seen from some of the college buildings. On the campus are about 30 University buildings, including dormitories for men and women, recitation halls, laboratories, library, and gymnasium.



A FRATERNITY HOUSE.

COURSES OF INSTRUCTION

AGRICULTURE AND HORTICULTURE.

PROFESSOR BELL; PROFESSOR GARDNER; PROFESSOR BROWN:

In these departments five lectures a week will be given, and ten hours spent in laboratory work. The following subjects will be presented:

a. Agriculture:

1. Climatic conditions in relation to Agriculture.
2. Soil types, and composition; soil physics—heat, aeration, moisture; principles and practices of cultivation; drainage.
3. Soil formation, fertility, maintenance of fertility.
4. Chemistry of crop growth.
5. The applied botany of farm crops: cereals, potatoes, root crops, forage and grass crops. The identification of crops. The nature and special value of classes of crops.
6. The importance of variety in crops.
7. The improvement of crops by selection and hybridization.
8. Weed identification and eradication.
9. The presentation of agriculture in public school courses:
 - (a) The place of agriculture in rural education.
 - (b) Grading the subject matter.
 - (c) School gardening.
 - (d) The business management of the farm.

b. Horticulture:

1. The classification of horticultural plants; a survey of the field of horticulture.
2. The propagation of cultivated plants, including seedage, cuttage, and grafting.
3. Setting and transplanting.
4. Principles and practice of pruning.
5. The protection of plants from their enemies; spraying.
6. The market problem.
7. Horticulture as a business.

c. Poultry Husbandry:

A course consisting of one lecture and two laboratory periods a day for two weeks, beginning July 5. The subjects treated will be incubation, brooding, feeding, housing, fattening, killing, and marketing, and the business problems of the industry.

CHEMISTRY.

PROFESSOR MCKEE; MR. BURGHART:

1. General Inorganic Chemistry.—A review of the classroom work of the freshman year. Experimental lectures and recitations. *Five times a week.*
2. A modification of course 1 will be arranged for those students who wish to review elementary chemistry before taking the examination for entrance to the University.

3. Methods of Laboratory Manipulation.—A course of interest to teachers of the sciences and those expecting to engage in commercial laboratory work. Glass bending, blowing, cutting, beveling, boring, and annealing. Grinding of stopcocks, sealing of wires into glass and repair of glass apparatus. Soldering of the more common metals. Methods of labeling. Stains, varnishes, and lacquers for wood and metal apparatus. Setting up of apparatus. *Six hours of laboratory work each week.*
4. Chemistry of Daily Life.—This is a lecture course in which are discussed from the chemical standpoint the processes involved in photography, antiseptics and disinfectants, alcoholic and non-alcoholic beverages, fertilizers, paper-making, building materials, baking powders, flavoring materials, perfumes, paints, dyes, etc.
Wednesdays and Fridays and alternate Mondays.
5. Laboratory work in general chemistry and in analytic chemistry will be arranged according to the needs of those attending the summer term.

DOMESTIC SCIENCE AND ELEMENTARY DOMESTIC ART.

PROFESSOR COMSTOCK:

1. Cookery.—The course in cookery consists of the teaching of fundamental principles. It includes work with vegetables, cereals, meats, eggs; canning; jelly making; dishes for desserts; salads. At least one meal will be prepared and served in the dining room of the department. *Four hours laboratory per week; one hour recitation.*
2. Invalid Diet.—This course gives practical lessons in the preparation of dishes to be served invalids. Milk and eggs receive special consideration. Some of the most common diseases are discussed as to symptoms, treatment, and diet. *Four hours laboratory per week; one hour recitation.*
3. Infant Diet.—This work is taken up similarly to the invalid diet. The food for a child under two years is studied most carefully. Dr. Emmet Holt is the chief authority consulted. Diet for children during school age is touched upon. *Four hours laboratory; one hour recitation.*
4. Sewing.—The elemental stitches are taught by practical application. Hemming, overhanding, outlining, hemstitching, running stitch, back stitch, button holes, gathering, placket making. *Four hours per week, laboratory.*
5. Laundry Work.—Removal of stains is the subject first considered. The actual work of washing and ironing table linen, body linen, flannels, silks, colored dresses, towels and stockings, laces, and also the making of soap. *Four hours per week laboratory; one hour recitation.*

6. Household Economics.—This course pertains to the care and order of the house and its furnishings; cleaning of glassware, silverware, brass, pewter, etc.; sweeping and dusting; construction and proper care of a refrigerator and a stove. *Two hours per week, laboratory; one hour recitation.*

Laboratory fees will be charged for the cookery and diet courses: \$5 for cookery; \$3 each for the diet courses. Those not regularly registered in the summer term will pay \$10 for the cookery and \$7 each for the diet courses.

ECONOMICS AND SOCIOLOGY.

PROFESSOR SPRAGUE:

MONEY AND BANKING.—An introductory course to the study of money, banking, and finance. The history of money and the principal forms of currency used in the leading countries; the principles and workings of the various banking systems of America and foreign countries; the monetary history of the United States. Required of junior engineers and all who take course 2b. (See catalog.) Text-book and lectures. This course is 2a in the catalog.

SOCIOLOGY.—This course is devoted to the study of the evolution of society and social institutions, the family, religious organisms, the state and property, and such current social problems as divorce, criminality and prison reform, poverty and its relief, etc. General sociological theory will occupy the last weeks of the term. Lectures, readings, and discussions. This course is 3a in the catalog.

BUSINESS LAW.—This course aims to acquaint the student with those legal principles and practices which are essential to a business life and with which every active citizen should be familiar; rights, contracts, agency, partnerships and corporations, bailments, guaranty, insurance, etc. Text-books, readings, and discussions. This course is 6 in the catalog.

EDUCATION.

PROFESSOR BELL:

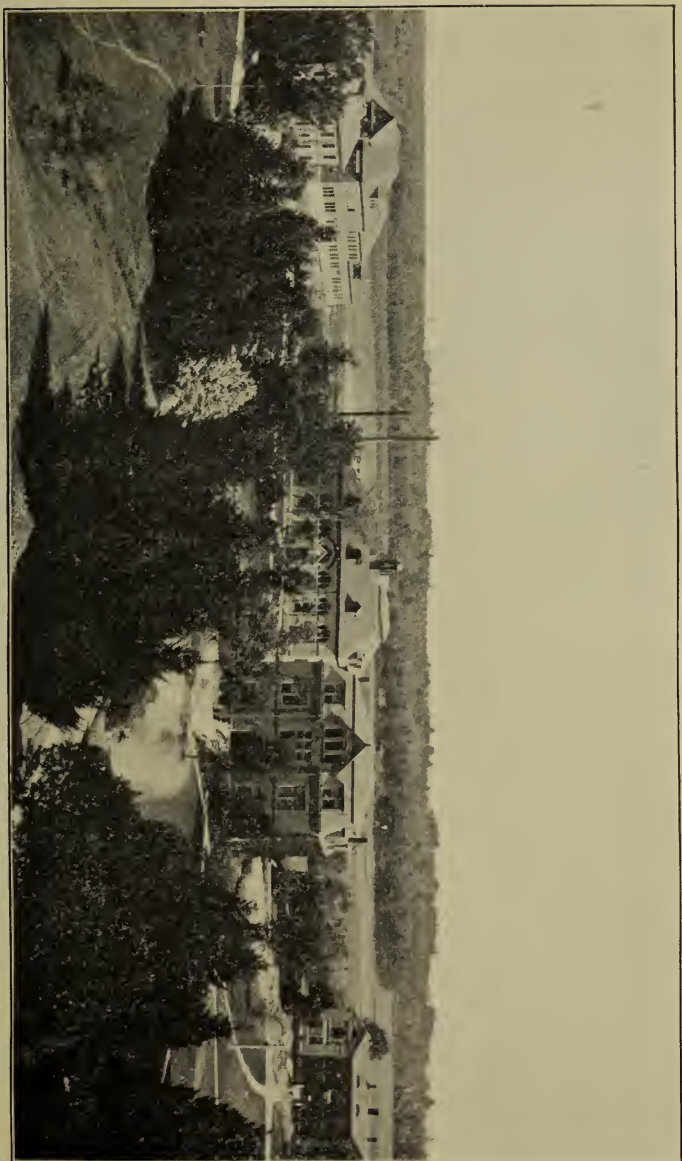
1. Principles of Education.—The design of the course is to set forth (1) the meaning and aims of education as related to the individual and society; (2) the relative educational value of studies and their organization into the curriculum, as indicated by the recapitulation, culture epoch, formal discipline, and other theories; and (3) the methods of teaching as determined by the mental processes involved, particularly, instinct, habit, attention, interest, apperception, induction, and deduction.
2. Foundations of Education.—Studies in the nervous and mental organization of man with special reference to his capacity for education. The central nervous system, the brain, and the special senses will be studied with reference to their functions and contributions to education. Speech and the higher mental processes will be considered to establish a scientific procedure in instruction.

3. Child Study.—Studies of the child from birth to maturity; the physical child; the order of development of the mental powers; adolescence; adaption of studies to the child.

ENGLISH.

PROFESSOR GRAY; MR. PRINCE:

1. A course in preparatory English for the benefit of students who have entrance credits to make in this department.
2. English Composition and Rhetoric.—The work in this course is similar to that of the fall semester of the freshman year in the University. It consists of the study of text-books, discussions of principles and methods, and practice in writing. The written work, which is based largely upon the personal observations and experiences of the student, is discussed before the class in order to give practical illustration of principles and methods. Teachers will obtain from this course a familiarity with the methods of teaching English composition followed in the University, and special effort will be made to meet their needs. The text-books used will be Woolley's Handbook of Composition, Carpenter's Model English Prose, Gray's College Theme Tablet.
3. Public Speaking.—The purpose of this course is to give the student a practical knowledge of the fundamental principles of effective public speaking. The work consists of voice training by means of practice work in classes, reading aloud for interpretation, and the acquirement of ease in pose and gesture. A special point is made of correct pronunciation.
4. Public Speaking.—In this course the training acquired in course 1 will be applied to the delivery of model public orations, and especially to the speeches of the students' own composition. Attention will be given to the correction of individual faults. Courses 1 and 2 will occupy two hours each per week and may be taken by university students as a substitute for English 1a and 1b.
5. Nineteenth Century Literature.—This course consists of a study of the social and literary impulses of the early nineteenth century, and considerable reading in such prose writers as Carlyle, Emerson, Newman, Ruskin, Arnold, and Stevenson; and in such poets as Wordsworth, Coleridge, Byron, Shelley, and Keats.
6. The Development of the Drama.—The origin and growth of the drama is traced down to the closing of the theatres. Typical plays are read and discussed. If there is time, an early, and a late play of Shakspeare will be read.
7. Old English (Anglo-Saxon).—This course consists of a study of English literature between the 8th and the 12th centuries. Selections from Anglo-Saxon prose and poetry are read with attention to grammar, phonology, the relation of the Anglo-Saxon to modern English, archaeological, historical, and lit-



GROUP OF BUILDINGS.

erary interests. This course is offered especially for those who intend to teach English, and will be given if a sufficient number elect it.

FRENCH.

MR. RAICHE; MADAME RAICHE:

- 1 a. Elementary Course.*—This course is intended for beginners. The text-book used will be Frazer and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 1-73.
- 1 b. Continuation of Course 1 a.†—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 73-128; Rambeau's *French Reader* (Henry Holt & Co.).
- 1 c. Continuation of Course 1 b.†—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 337-344; Rambeau's *French Reader* (Henry Holt & Co.).
2. Intermediate course.—This course is intended for those who have already the required number of points for Entrance French, and who wish a course in French that may be counted towards a bachelor's degree. The text-books used will be Augier and Sandeau's *Le Gendre de M. Poirier* (American Book Co.); France's *Le Livre de mon ami* (Henry Holt & Co.); Gase's *Concise Dictionary of the French and English Languages* (Henry Holt & Co.), or Clifton & McLaughlin's *New Dictionary of the French and English Language* (Wm. R. Jenkins Co.). Students should bring with them their grammars.
3. Conversational French.—A course designed to familiarize the student with the common French words representing affairs in daily life. Conducted by Madame Raiche. Three times a week.
4. Rapid Sight Reading.—A course for students who are sufficiently advanced, will be given in the rapid reading of a large amount of French prose and poetry. Conducted by Madame Raiche. Twice a week.

GERMAN.

PROFESSOR THOMPSON:

1. Elementary Course.—For those who wish to acquire or review the essentials of German grammar and the foundations of a German vocabulary. Text-books; Whitney's *Brief German grammar* (H. Holt & Co.); Grimm's *Kinder-und Hausmärchen* (D. C. Heath & Co.).

*The requirements for Entrance French may be met by taking Courses 1a, 1b, and 1c in consecutive years.

†Students who already have two of the four points required for Entrance French may complete their requirements during one Summer Term by taking courses 1b and 1c.

2. Second Year German.—This course is designed for students who have completed a year's work in German or for such teachers as may wish to review their work in this department.
3. Conversational German.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs. Twice a week.
4. German Literature.—A brief course of lectures covering a period of German literature. This course is designed for advanced students. Three times a week.

Other advanced courses in German may be substituted for Courses 2 and 4 if they seem better adapted to the needs of the students.

HISTORY.

PROFESSOR COLVIN:

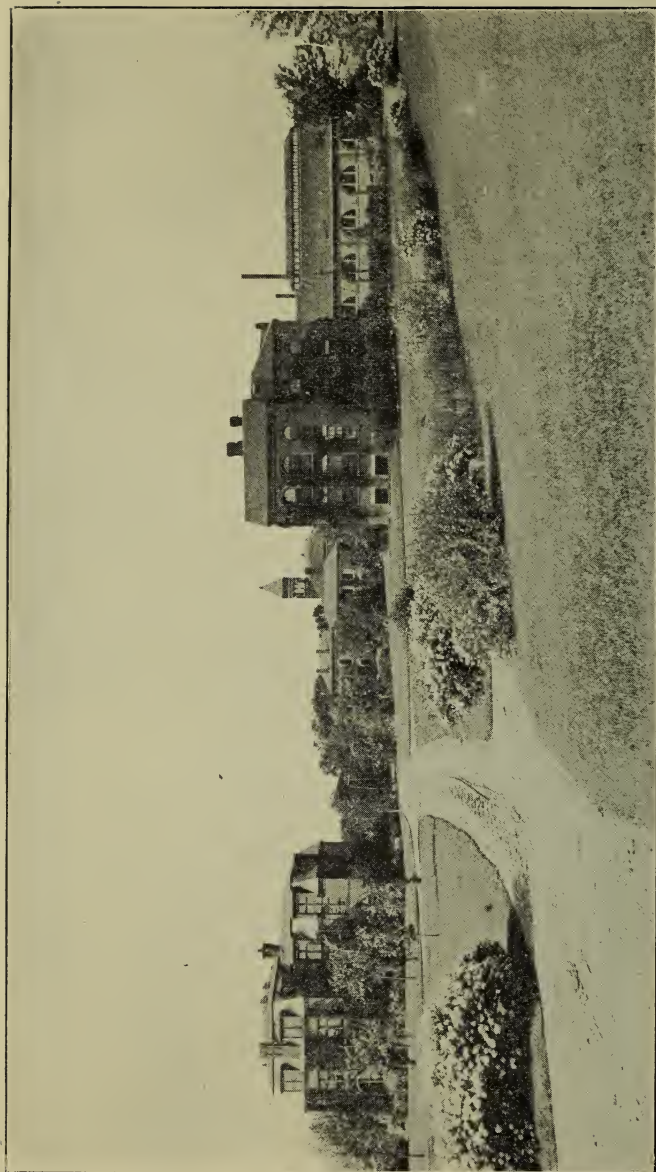
1. United States History.—A brief course of two recitation periods a week, reviewing the work done in preparatory school. This course is designed to prepare a student who has taken the course in United States History for the entrance examinations of the University.
2. English History.—This course will be given three times a week, and has a purpose similar to that of the course in United States History.
3. Modern European History.—A course designed for teachers and graduate students. It covers the history of Western Europe from 1500 to date. Five hours a week.
4. Advanced History.—A course in Advanced History will be offered to graduate students and others who are prepared to take it. The character of the work will be determined by the requirements of the students who elect it.

LATIN.

PROFESSOR CHASE:

The Latin Department offers two distinctly different lines of study, intended to meet the needs of three classes of students.

1. For Teachers of Latin, and for Students wishing to gain Entrance Credits in Latin. One course is offered in Virgii and one in Cæsar's Gallic War. In these two courses various questions connected with the teaching of Latin will be discussed, such as questions of spelling and pronunciation, of grammatical forms and inflections, of syntax, prosody, etc.; also questions of bibliography, methods of translation, history, mythology, literature, and the various aids to the elucidation of the authors studied, together with the fundamental principles of the Latin language.



CAMPUS VIEW.

2. For Students who desire College Credits looking to the B. A. Degree. It is the plan of the department to offer a double course that shall cover the work of an entire college semester and be equivalent to that required for one college credit, and to vary this course from year to year so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. For the summer of 1910 it is proposed to offer a course in Cicero, *De Senectute*, and Horace, Odes and Epodes, or a course in Pliny and Tacitus. The decision will rest with the class. This will be equivalent to the work offered for the second semester of the freshman year. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

LIBRARY ECONOMY.

MISS RATHEONE:

The course of study offered in this department is planned to accomplish the greatest possible amount of work in three weeks' time. It begins July 5th and continues to July 25th. The subjects presented are simplified cataloging, accessioning and shelf listing, book selection, ordering, and reference work. Lectures are given dealing with the repairing and rebinding of books; administrative points in relation with the trustees, public, and assistants; annual reports, statistics, and accounts; borrowing customs and the spirit of the modern library. The aim is to cover all needed library subjects in a brief way, and to present the points touched upon with such clearness that the student will carry away current information rather than a confused impression.

The text-books used are Dewey's Decimal Classification, Cutter's Author Tables, Cutter's Rules for a Dictionary Catalog, Simplified Library School Rules, The A. L. A. List of Subject Headings, The A. L. A. Catalog, Kroeger's Guide to the Study and Use of Reference Books. Students who own any of these books should bring them with them.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HART; MR. REED; MR. HAMLIN:

1. High School Algebra.—A course intended for teachers in preparatory schools and covering the second year's work. Especial attention will be given to the methods of presenting this subject and those topics will be emphasized that are most important in preparation for college work. Candidates for admission to the University who are deficient in a part of their preparation in algebra are also advised to take this course.
2. Plane Geometry.—A review of the more important theorems with practice in the demonstration of original propositions

and in the solution of numerical exercises. For teachers in preparatory schools and for candidates for admission who are slightly deficient in geometry.

3. Solid Geometry.—This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Bush and Clarke's Solid Geometry will probably be used as the text-book, but Phillips and Fisher's, Wells's, and other books will be used for reference.
4. Plane Trigonometry.—The solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which may be useful for reference.
5. College Algebra.—The theory of quadratic equations, the binomial theorem, and so much of the regular freshman course in algebra as time will permit. Text-book to be selected at the opening of the term.
6. Analytic Geometry.—A brief course covering the elements of this subject.
7. Differential and Integral Calculus.—A course intended for teachers in preparatory schools who wish to gain a knowledge of the elements of this subject.
8. Descriptive Astronomy.—Lectures accompanied by work in the observatory.
9. Analytical Geometry, the equivalent of course Mathematics 6b, in the University catalog.
10. Calculus, the equivalent of course Mathematics 8 in the catalog.
11. Mechanics, the equivalent of course Mechanics 5 in the catalog.
12. Mechanics, the equivalent of course Mechanics 6 in the catalog.

Note:—Nine of the above courses will be given, the choice to be determined by the number of students electing.

Courses 9, 10, 11 and 12, being review courses, may be taken only by those who have previously pursued the subject.

PHYSICS.

PROFESSOR STEVENS; PROFESSOR WOODMAN:

1. An elementary course.—

This includes the list of experiments adopted by the Maine colleges for admission in Physics.

2. Advanced laboratory course.—

Work in any laboratory course offered in the University may be taken by students in the summer term who are properly qualified.

3. College Physics.—A course based upon those parts of Crew's text-book in Physics which treat of mechanics, light, and

sound. This course may be taken for credit only by students who have pursued the subject for a regular semester at the University.

4. College Physics.—A course based upon those parts of Crew's text-book in physics which treat of electricity and heat. This course may be taken for credit by University students who have covered the ground in physics 2, but have failed in the subject.
5. High School Physics.—A rapid survey of the ground covered in high school, based upon Millikan and Gale's text-book. This course is designed to meet the needs of teachers in high schools and it may be taken as a rapid review by students who have covered the ground in high school but have failed to pass college entrance examinations.

LECTURES.

A series of evening lectures will be given by members of the Faculty of the University and others on subjects of general interest to the student body and to the public. These lectures are free to those who wish to attend them, whether members of the Summer Term or not.

VESPER SERVICES.

A brief religious service is conducted each Sunday at 4 o'clock in the Lecture Hall in the Library. This consists of a song service and an address.

LIBRARY.

Throughout the Summer Term the University library of 37,000 volumes, and the reading room containing about 300 periodicals and the Maine daily papers will be open from 9 A. M. to 12 M. and from 2 P. M. to 5 P. M. daily, except Sunday. The library privileges ordinarily accorded the university students, including the home use of books, will be extended to the students in the Summer Term.

LABORATORIES, MUSEUMS, AND OBSERVATORY.

The laboratories belonging to the departments of physics and chemistry will be available for use of the students. In the physical laboratory there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University. All necessary apparatus is supplied to the student without charge.

In the laboratories a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The museum is illustrative of the rocks, flora, and fauna of Maine, and will be open at stated periods for the use of the students.

The observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

EXPENSES.

Tuition for the term of six weeks, covering all charges for instruction up to fifteen hours a week, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories:

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

An additional charge of \$1 an hour is made for registration in excess of fifteen hours a week.

Board and room in the University buildings, including light and the necessary furniture, \$24 for the term. This includes the period from the morning of June 27th to the evening of August 5th. The charge for rooms without board is \$1.00 per week; and for board at the Commons \$3.50 a week. Board may also be had at the Mount Vernon House for \$5.00 a week. This board, while of no more substantial character than that offered at the Commons, affords a greater variety in the bill of fare. Students are asked to indicate their preference in this regard as early as convenient.

No charge is made to students who register for work in Library Science only. In the courses in Domestic Science and Art a fee of \$10 is charged students who register for cookery alone and \$7 for those who register for diet alone. Regular students of the summer term who have paid their tuition fee may register for these courses for \$5 and \$3 respectively. *While the evening lectures are open to the public, the privileges of the daily lectures and recitations are not extended to any but registered students.*

RECREATION.

Most of the class work will be held during the forenoon, leaving the afternoon and evening free for study and recreation.

On the campus are several excellent tennis courts. The neighboring country affords many attractive excursions, on foot, by bicycle, carriage, or electric cars. Maine's famous seaside resort, Bar Harbor, is but one and one-half hours distant by rail from Bangor, while Mount Kineo and Moosehead Lake are at only a slightly greater distance and easily accessible.

Within easy driving or wheeling distance are Pushaw and Chemo lakes, as well as several attractive mountains.

Steamboat trips from Bangor to the beautiful resorts on Penobscot river and bay are inexpensive and delightful.

IN GENERAL.

In order to give six full weeks of instruction and to avoid continuing the session until the heated term, the date of beginning was fixed for June 27th. Students to whom this early date proves inconvenient may register for a five weeks course on the Monday following the fourth of July. While it is desirable that all students begin at the opening of the course, all possible aid will be given such students as are unable to register until later in the making up of the work which has been omitted.

Prospective students are invited to consult Dean Stevens, who is in charge of the Summer Term, or any of the other instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers and others who may desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn.

STUDENTS IN 1909

(Abbreviations indicate subjects taken)

Adams, Ida Matilda Teacher.	<i>Orono</i>	Ed.
Ballou, William Rice	<i>Bath</i>	Hy, Ms. Rm.
Barker, Harold Louis	<i>Boston, Mass.</i>	Gm. Ch. Ec. Ps. Hy.
Barron, Frank	<i>Orono</i>	Ec. Ps. Rm.
Bartlett, Sanford Simon	<i>Damariscotta Mills</i>	Ms. Eh. Gm. Lt.
Blanchard, Bessie Grant Teacher.	<i>Cumberland Center</i>	Ed. Eh. Hy.
Bowdoin, Emery Ray	<i>Bucksport</i>	Ms. Rm. Eh. Hy.
Carpenter, Frank Simonds	<i>Madison</i>	Ms. Eh. Hy.
Carter, Irving Willis	<i>Brewer</i>	Rm. Bl. Ms.
Carvill, Alonzo Harper Principal.	<i>Auburn</i>	Gm. Ps. Ch. Rm.
Chaplin, Jeanette Evangeline Assistant Teacher.	<i>Orono</i>	Ed. Ec.
Chapman, Everett Thomas	<i>Harrison</i>	Rm. Ms.
Chapman, Harry Wey	<i>Harrison</i>	Rm. Ms.
Chase, Alice Elizabeth Guild	<i>Orono</i>	Rm.
Chick, Margaret Amy Teacher.	<i>Bangor</i>	Gm. Rm. Eh.
Chick, Stanley	<i>Bangor</i>	Ms. Rm. Lt.
Clemons, Samuel Wadsworth	<i>Hiram</i>	Eh. Ec. Ms.
Clifford, Harold Linscott	<i>Orono</i>	Gm. Ch. Ec.
Coburn, Martha Alice Teacher.	<i>Orono</i>	Ed.
Coffin, Charles Frederick	<i>Ashland</i>	Ms.
Cushman, William Parsons	<i>West Pownal</i>	Ms. Ps.
Danforth, Hugh Nagles	<i>Dennison, Texas</i>	Ec. Rm. Md. Hy.
Daniels, Clyde Folsom	<i>Thomaston</i>	Ms. Lt. Ps. Eh.
Davee, Everett Willard	<i>Orono</i>	Ed. Ec.
Dinsmore, Ernest LeRoy, B. A.	<i>Whiting</i>	Ed. Ch. Ps. Hy.
Dinsmore, Mary Crane	<i>Whiting</i>	Rm. Ec. Hy.
Dixon, Esther Margaret	<i>Southwest Harbor</i>	Lt. Gm. Rm.
Drew, Laurence Evans	<i>Brunswick.</i>	Ch. Ps. Ms. Hy.
Eden, Nellie May Teacher.	<i>Charleston</i>	Rm. Eh.
Emery, Helen Ricker Principal.	<i>Cherryfield</i>	Ed. Ec. Ms.
Ervine, Annie	<i>Round Pond</i>	Ec. Eh.

Everett, Jasper Willard	<i>Norway</i>	Ch. Ec.
Faulkner, Harold Clark	<i>Lynn, Mass.</i>	Ch. Eh. Rm.
Faulkner, William Thomas	<i>Orono</i>	Ps. Ms.
Fitch, Leroy Allen	<i>East Sebago</i>	Ps. Ch. Rm.
Foss, Maurice Colby	<i>New Portland</i>	Lt. Ps. Rm. Eh. Ch.
Gordon, Adelbert Willis	<i>West Sullivan</i>	Lt. Rm.
Superintendent and teacher.		
Gould, Ralph Wadlin	<i>Belfast</i>	Md. Ec. Hy.
Gould, William Sanford	<i>Dexter</i>	Ps. Ec. Rm.
Graves, Justin Dwight	<i>Orono</i>	Eh. Rm. Ed.
Graves, Margaret Edwina	<i>Orono</i>	Eh. Rm.
Hammond, Arthur Augustus	<i>Bridgeport, Conn.</i>	Ch. Ms.
Hanley, Elizabeth Fitzgerald	<i>Thomaston</i>	Eh. Lt. Hy.
Teacher		
Harris, Abram	<i>Evanston, Ill.</i>	Ed. Rm.
Hart, Alice Pottle	<i>Orono</i>	Rm.
Harvey, Florence Evelyn	<i>Orono</i>	Rm.
Hatch, Roy Otis	<i>Orono</i>	Ms.
Haynes, Evangeline Mabel	<i>Old Town</i>	Rm.
Teacher.		
Hill, Florence	<i>Norway, Mass.</i>	Ed.
Teacher.		
Hodgdon, Daniel Russell	<i>Gorham</i>	Ec. Ps. Ms. Gm. Ed.
Teacher.		
Hodgdon, Leona Fogg	<i>Gorham</i>	Ec. Eh. Rm. Hy.
Assistant Teacher.		
Hodgkins, Alden E., B. S.	<i>Damariscotta Mills</i>	Ec. Ed.
Teacher.		
Hopkins, Florence May	<i>Detroit, Mich.</i>	Gm. Ed. Ec.
Librarian.		
Howard, Ethel Louisa	<i>Farmington</i>	Hy. Ec.
Assistant Teacher.		
Howard, George Crosby	<i>Orono</i>	Ed. Eh. Ec.
Pastor, Methodist Episcopal Church.		
Jewett, Donald Campbell	<i>Cherryfield</i>	Lt. Ms. Eh.
Jewett, Frances Campbell, A. B.	<i>Cherryfield</i>	Lt. Ms. Eh.
District Superintendent.		
Johnson, Chester Cleveland	<i>Portland</i>	Eh. Hy. Ec. Ch.
Kelleher, Adrian Fitzgerald	<i>Orono</i>	Bl. Ch.
Kelleher, Marie Therese	<i>Orono</i>	Ed.
Teacher.		
Langstroth, Maud, Ph. B.	<i>Rockland</i>	Lt. Gm. Rm. Hy.
Teacher.		
Leary, Herbert Daniel	<i>E. Boston</i>	Eh. Ch. Ms. Ec. Hy. Rm.
Leong, Yuen Foo	<i>Canton, China</i>	Ed. Eh. Rm.
Littlefield, Joseph Philip	<i>Ogunquit</i>	Eh.
Linn, Tse-sheng	<i>Hong King, China</i>	Ed. Eh.

Loring, Paul Cushing	<i>Yarmouthville</i>	Ch. Eh. Rm.
Lovely, Claude Gerald	<i>Old Town</i>	Gm. Hy.
McBride, Herbert Clayton Grover	<i>Easton</i>	Ms. Hy.
McGee, Maude Ellen	<i>Orono</i>	Ed. Eh.
Teacher		
McLeod, Catharene Gould	<i>Old Town</i>	Rm.
McSkimmon, Anna Belle	<i>Bangor</i>	Ed. Gm. Rm.
Maddocks, Chester Arthur	<i>Ellsworth</i>	Ps. Ms. Rm.
Teacher		
Mason, William	<i>Bangor</i>	Ms.
Morse, Mary Leland	<i>Orono</i>	Gm.
Mosher, Frances Belle	<i>Orono</i>	Ed.
Teacher.		
Mullins, William	<i>Cambridge, Mass.</i>	Ed. Hy. Ec. Ms.
Nutter, William, A. B.	<i>Brookline</i>	Ps. Ch.
Principal.		
O'Connell, Charles Leslie, M. A.	<i>Milford</i>	Rm. Ec. Ed.
Teacher.		
Parlin, Amber Lorene, A. B.	<i>Bradley</i>	Bl. Ps.
Teacher.		
Parlin, John Crawford	<i>Norridgewock</i>	
		Rm. Ps. Ec. Ch. Ed. Hy.
Peabody, Ellen Holway	<i>Machias</i>	Gm Hy.
Teacher.		
Pearl, Maud DeWitt, A. B.	<i>Orono</i>	Rm.
Reed, Geneva Alice	<i>Orono</i>	Ps. Rm.
Robinson, Ralph Sylvester	<i>Thomaston</i>	Ch. Ps.
Principal.		
Rowe, Henry	<i>Old Town</i>	Eh. Rm. Lt.
Rowell, Frank Lester	<i>Canaan</i>	Ed. Ec.
District Superintendent.		
Sampson, Albert Edward	<i>Gorham</i>	Eh. Ms. Hy.
Schierloh, August Herman Theodore	<i>Brooklyn, N. Y.</i>	Gm. Ch. Ed. Hy.
Shaw, Louis Ethelbert	<i>Orono</i>	Eh. Ps. Ec.
Small, Allana Butler, A. B.	<i>Cherryfield</i>	Eh. Ed.
Head of Dept. of English.		
Small, Irving Wheelock	<i>South Beddington</i>	Ec. Ed. Eh. Rm.
Principal.		
Small, Lillian Maude	<i>Powenal</i>	Ch. Ps. Eh. Bl.
Teacher.		
Small, Mertice Winton	<i>Stonington</i>	Lt. Rm. Eh. Bl.
Teacher.		
Small, Nathan Houston	<i>Belfast</i>	Ms. Rm.
Small, Ralph Hugo	<i>Oakland</i>	Rm. Hy. Eh.
Smith, Charles French	<i>Skowhegan</i>	Ps. Ec. Ch.
Smith, Edwar Henry, B. S.	<i>East Sullivan</i>	Ch. Ps.
Teacher.		

Snyder, Mabel Frances Teacher.	<i>Orono</i>	Ed.
Stanley, Winthrop Hamor	<i>Hulls Cove</i>	Gm. Ch. Ps. Ms.
Stinchfield, John Field	<i>Clinton</i>	Eh. Ed. Ps.
Sturtevant, Arthur Leroy	<i>Milo</i>	Bl. Ms.
Surface, Anna Burger	<i>Orono</i>	Rm.
Taft, Leonora Ellen Teacher.	<i>Boston, Mass.</i>	Ms. Eh. Ed. Ch. Lt.
Taylor, Winifred Emma Teacher.	<i>Bangor</i>	Ed. Rm. Ec.
Thomas, Deane Stanley	<i>Yarmouthville</i>	Ed. Hy. Eh.
Tibbetts, Julia Jane	<i>Old Town</i>	Ms. Lt. Rm. Eh.
Tibbetts, William Herbert Principal.	<i>Bangor</i>	Ch. Ms. Ps.
Trickey, Harold Albert Mariner, A. B. Teacher.	<i>Bangor</i>	Ps. Ch.
Turner, De'l Ward	<i>Easton</i>	Eh. Ch. Rm. Ms. Hy.
Wadleigh, Jennie Mitchell Teacher.	<i>Old Town</i>	Lt. Gm.
Wakefield, George Arthur	<i>Andover</i>	Ch. Rm. Ec.
Warren, Bessie Gosse Teacher.	<i>Bangor</i>	Rm. Ed.
Wass, Clifton E. Superintendent of Schools.	<i>Sangerville</i>	Lt. Eh. Ms. Ed.
White, Edgar Eir Teacher.	<i>Jonesboro</i>	Lt. Ed. Bl.
Wilbur, Walter Edmund, B. S. Instructor.	<i>Pembroke</i>	Ed.
Willard, Eda Gertrude Teacher.	<i>Strong</i>	Gm. Ec. Eh. Hy.
Williams, Thomas Huges	<i>Brownville</i>	Eh. Ms. Hy.
Winchester, Jeanette	<i>Corinna</i>	Ps. Rm.
Winchester, Sidney Hodge	<i>Corinna</i>	Eh. Hy. Ms.
Winters, Amos Arthur	<i>Waterville</i>	Hy. Rm. Ps. Ec.
Woods, Leroy Leonard Principal.	<i>Wells</i>	Ch. Ms. Ed.
Wormwood, Carolyn Imogen	<i>Old Town</i>	Rm.
Wu, Maen Chang	<i>Canton, China</i>	Ms. Rm.
Young, George Edgar	<i>Skowhegan</i>	Eh. Ms. Rm.
Young, Mary Kathleen Assistant Teacher.	<i>Jacksonville</i>	Eh. Ps. Gm. Ch. Lt.

ORGANIZATION OF THE UNIVERSITY.

COLLEGE OF ARTS AND SCIENCES.

Major courses in Biology, Chemistry, Civics, Education, English, Germanic Languages, Greek, History, Latin, Mathematics, Philosophy, Physics, and Romance Languages.

Confers the degree of B. A., with specifications of the major subject.

SUMMER TERM. The Summer Term is a department of the College of Arts and Sciences.

COLLEGE OF AGRICULTURE.

Major courses in Agronomy, Animal Industry, and Horticulture. Confers the degree of B. S., with specification of the major subject.

SHORT WINTER COURSES in Agriculture, Dairying, Horticulture, and Poultry Management.

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The SCHOOL COURSE IN AGRICULTURE is a two years course of practical instruction of non-collegiate grade. Certificates are awarded to those who complete this course.

THE COURSE IN FORESTRY.

AGRICULTURAL EXPERIMENT STATION.

Organized and maintained to carry on investigations along agricultural and allied lines.

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Courses in Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Chemical Engineering, Chemistry. Confers the degree of B. S. in the course pursued.

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Four years course leading to the degree of B. S. in Pharmacy. Two years course, equivalent to that of the ordinary School of Pharmacy, leading to the degree of Ph. C.

COLLEGE OF LAW.

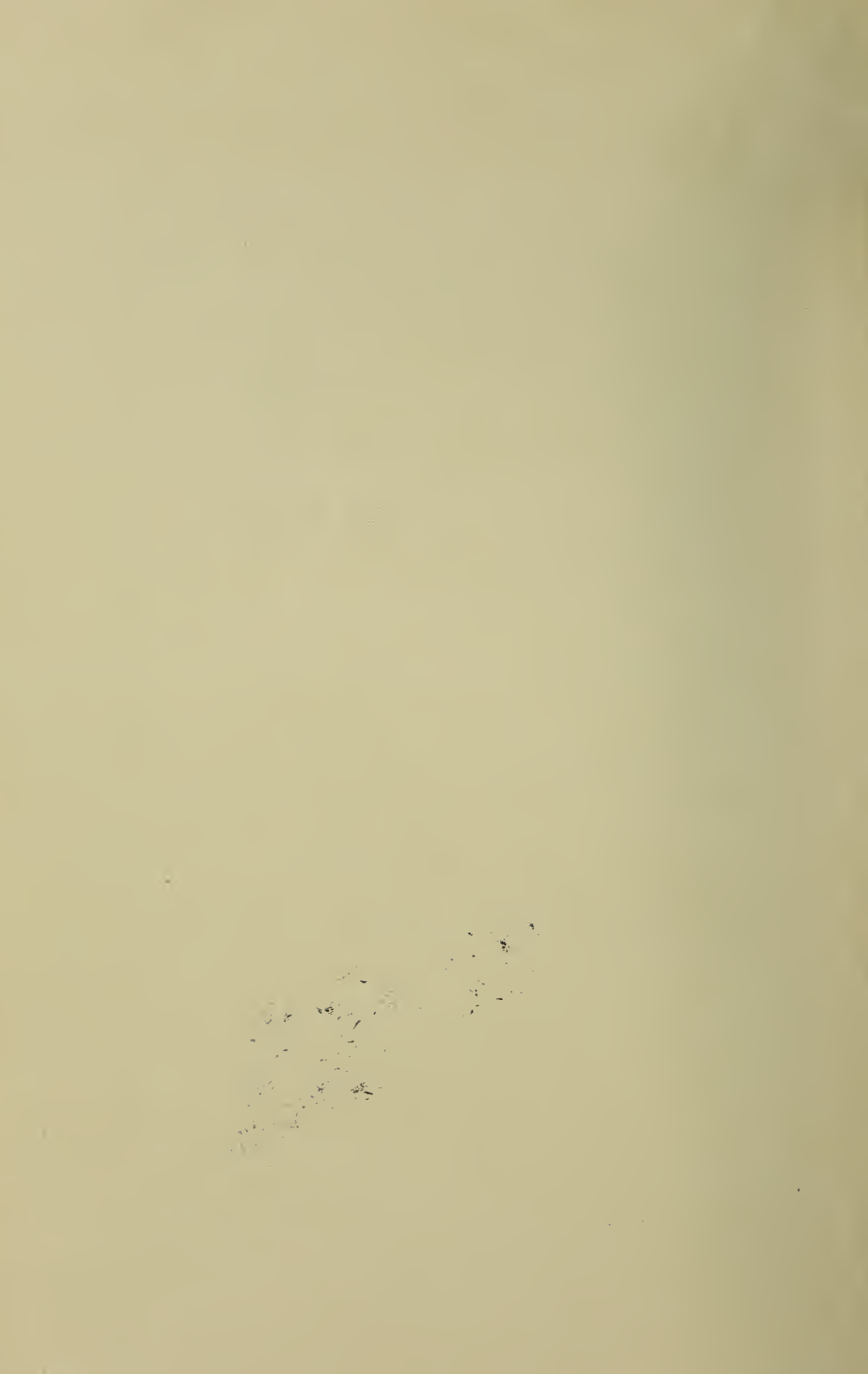
Three years course leading to the degree of LL. B. This college is located in Bangor.

GRADUATE COURSES leading to the appropriate Master's degree are offered in the various departments.

For catalog of the University, or other information, address

PRESIDENT GEORGE EMORY FELLOWS,

Orono, Maine.



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College of Arts and Sciences

OF THE

University of Maine

JUNE 28--AUGUST 6
1909



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FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS

President

A. B., Lawrence, 1879; A. M., 1882; Ph. D., Berne (Switzerland), 1889; LL. D., Bowdoin, 1902; L. H. D., Lawrence, 1902. Principal of Eau Claire Wesleyan Seminary, 1879-80; Ryan High School, Appleton, Wis., 1882-85; New Orleans Boys' High School, 1885-88; Professor of European History, Indiana, 1891-95; Assistant Professor of History, Chicago, 1895-02; President, Maine, 1902 — .

JAMES STACY STEVENS

DEAN OF THE COLLEGE OF ARTS AND SCIENCES. Physics

B. S., Rochester, 1885; M. S., 1888; M. S., Syracuse, 1889; LL. D., Rochester, 1907. Principal Village School, Jasper, N. Y., 1885-6; Instructor in Sciences, Cook Academy, Havana, N. Y., 1886-91; Graduate Student, Chicago, 1895-6; Professor of Physics, Maine, 1891 — . Dean of the College of Arts and Sciences, 1905 — .

JAMES NORRIS HART

Mathematics

B. C. E., Maine, 1885; C. E., 1890; M. S., Chicago, 1897; Sc. D., Maine, 1908. Principal Dennysville High School, 1885-86; Principal Machias High School, 1886-87; Instructor in Mathematics and Drawing, Maine, 1887-90; Professor of Mathematics and Astronomy, 1981 — . Dean of the University, 1903 — .

CHARLES DAVIDSON

Education

A. B., Iowa College, 1875; A. M., 1877; Ph. D., Yale, 1892. Graduate student at Yale, 1876-77, and 1891-92; Principal, Minneapolis Academy, 1879-84; Supervising Principal of Public Schools, Dalles City, Ore., 1884-86; Master in English, Belmont School, Cal., 1887-93; Assistant Professor of English, Indiana, 1893-94; Associate Professor of English, Adelbert, 1894-96; Professor of English, Chicago Summer Term, 1895; English Inspector for the University of the State of New York, 1896-1904; Professor of Education, Pomona College, Cal., 1895-96; Professor of Education, Maine, 1906 — .

JOSEPH WILLIAM CARR

German

A. B., Harvard, 1893; A. M., 1895; Ph. D., Leipzig, 1899. Classical Master, St. Bartholomew's School, Morristown, N. J., 1894-97; Instructor in German, Harvard and Radcliffe, 1899-00; Acting Head of the German Department, W. Virginia, 1900-01; Associate Professor of English and Modern Languages, Arkansas, 1901-02; Professor of English and Modern Languages, Arkansas, 1902-06; Professor of Germanic Languages, Maine, 1906 — .

ROBERT JAMES SPRAGUE

History and Sociology

B. A., Boston, 1897; M. A., Harvard, 1900; Ph. D., Boston, 1901. Teacher, Eastern Maine Conference Seminary, 1893-94; Teacher, Maine Wesleyan Seminary, 1897-98; Professor of Economics, and Sociology, Knox, 1901-6; Lecturer on Sociology, Bangor Theological Seminary; Professor of Economics and Sociology, Maine, 1906 — .

ANDREW PAUL RAGGIO

French and Spanish

A. B., Texas, 1896; A. M., Harvard, 1902; Ph. D., 1904. Student of Romance Languages in France, Italy, and Spain, 1896-1901. Instructor in Spanish, Simmons College (Boston), 1902-3; Teacher of English, Harvard Summer School for Porto Rican Teachers, 1904; Lecturer in Old French and Italian, Bryn Mawr, 1904-05; Assistant, Central High School, St. Louis, Mo., 1905-06; Instructor in Romance Languages, Maine, 1907; Assistant Professor of Romance Languages, Maine, 1907 — .

LEON ELMER WOODMAN

Physics

A. B., Dartmouth, 1899; A. M., 1902. Assistant in Physics, Dartmouth, 1901-2; Instructor in Mathematics and Physics, Nashua. N. H., High School, 1902-4; Instructor in Physics, Maine, 1904-5; Assistant in Physics, Columbia, 1905-7; Fellow in Physics, Columbia, 1907-8; Assistant Professor of Physics, Maine, 1908 — .

CHARLES HOEING

Latin

A. B., Kentucky, 1890; A. M., 1892; Ph. D., Johns Hopkins, 1898; Fellow of Johns Hopkins, 1896-98; Student in the American School of Classical Studies in Rome, 1896-97; Instructor in Latin, the University of Rochester, 1898-1905; Assistant Professor of Latin, 1905 — .

EUGENE LOUIS RAICHE

French

Nicolet College, 1890; Andover Theological Seminary, 1897; Instructor Walnut Hill School, 1901-04; The Allen School, 1902-06; Simmons College, 1906-7; Maine (Summer Term) 1905, 1906; Browne and Nichols School, Cambridge, 1906 — .

LAURIE LORENZO BURGESS

Chemistry

B. S., Dalhousie University, 1905; A. M., Harvard, 1906. Assistant in chemistry, Harvard, 1906-1908; Instructor, Maine (Summer term,) 1906, 1908.

HARRY NEWTON CONSER

Botany

B. S., Union Seminary, Pa., 1883; M. S., 1886; Student, Leipzig and Bonn, 1888-9; M. A., Harvard, 1908; Professor of Botany, Central Penna. College, 1884-94; Assistant Principal High School, Sunbury, Pa., 1894-96; Principal High School, Sunbury, Pa., 1896-1907; Assistant in Botany, Harvard, 1908; Instructor in Botany, Maine, 1908 — .

ALFRED BLANCHARD KERSHAW

English

B. A., Amherst, 1904; M. A., 1907; Social Settlement Work, Boston, 1904-06; Graduate Student, Harvard, 1906-07; Instructor in English, Bates, 1907; Master in English and History, Allen School, 1908 — .

EDWARD STONE HAWES

English and Elocution

B. A., Amherst, 1893; M. A., 1896; Instructor in English, Brooklyn Polytechnic Institute, 1893-1898; Graduate Student, Yale, 1898-1899; Instructor in English, Durfee High School, Fall River, Mass., 1899-1905; Professor of English language and literature, Pa. Military College, Chester, Pa., 1905 — .

LOWELL JACOB REED

Mathematics

B. S., Maine, 1907; Instructor in Mathematics and Physics, Maine, 1907-8; Instructor in Mathematics, Maine, 1908 — .

RALPH KNEELAND JONES

Librarian

B. S., Maine, 1886. Librarian, Maine, 1897 — .



DORMITORY FOR WOMEN



DORMITORY FOR MEN

GENERAL INFORMATION.

The Summer Term of the University of Maine was established under its present conditions in 1903. It has had a gradual and encouraging growth and has enrolled among its members a large number of teachers and superintendents from Maine and other states. The courses are for the most part given by heads of departments of the Faculty of the College of Arts and Sciences of the University of Maine. In the cases where it has been necessary to go outside the Faculty, an effort has been made to maintain an equally high standard of efficiency. The majority of the courses offered are of college grade, but there are a few courses which are designed to meet the wants of students in preparatory schools who have not quite completed their collegiate preparation. By consulting the list of courses offered it will be seen in what manner this may be done in the various departments.

The primary object of the Summer Term as at present conducted is to meet the wants of teachers in the schools of Maine. There are a large number of teachers who were obliged to begin their work without the opportunity of a college training and such teachers feel themselves hampered by lack of thorough preparation. While it is not expected that the short time spent at the Summer Term of the University will compensate for this lack, it is, nevertheless, true that a large amount of information and inspiration may be received by attendance at this session. The work is especially helpful to those who are planning to go to college at some future time and who wish to obtain, in advance, a certain amount of college credit; or to those who have partially completed a college course and wish to continue it with as little break in their work as possible. Quite a large number of students have availed themselves of this opportunity to supplement their college work by work done at the Summer Term. For the completion of a regular course two-fifths of a credit is allowed on the University books and it is thus possible for the student to secure a little over one credit for his summer's work.

Another class of persons for whom the Summer Term is profitable are students of the University and other colleges who, for various reasons, are in arrears in their work, or who may wish to gain additional credits in their course. For such students the opportunity is offered along the lines of the elective subjects which they would regularly take in their college course.

During the session of 1908 Hon. Payson Smith, State Superintendent of Public Schools, was a regular member of the Faculty and gave lectures on the general subject of Superintendence. For the coming year Dr. Smith has agreed to give as many lectures on this subject as he will be able. It is also expected that an additional lecturer in the Department of Education will supplement the work of Professor Davidson. It is believed that the work in this department will prove of great value to the Superintendents from Maine and other states who may register for it. The work is arranged so that a complete course of six weeks is given in this subject. Professor Davidson will give his entire time to the work.

It may be noted here that the summer sessions to be held under the supervision of the Department of Public Schools will no longer give courses for teachers in secondary schools but they will limit their work entirely to that of the grammar grades. A circular issued by the State Superintendent announcing this fact calls attention to the advantages to be given Maine teachers in attending the summer session of the University and also to the fact that such work is no longer duplicated elsewhere in the State of Maine.

COURSES OF STUDY.

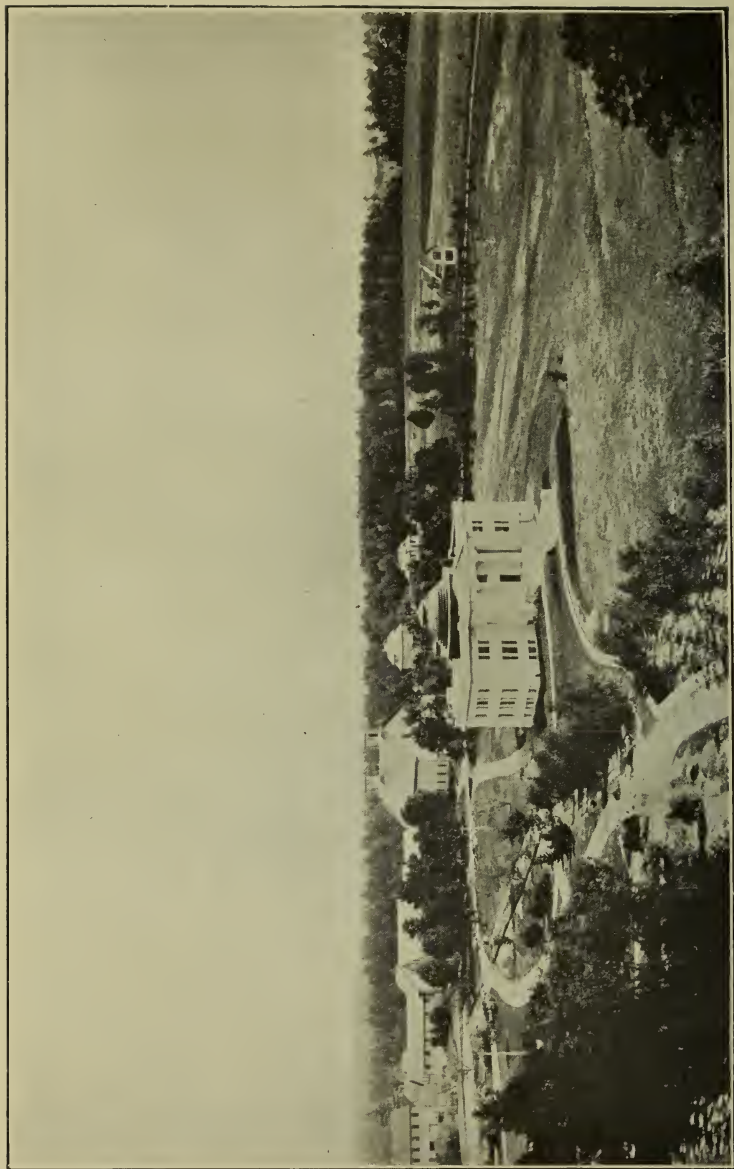
Courses of study are arranged to give University credit to students who desire it. As a rule a course which meets daily during the summer session is counted as equivalent of a course which meets twice a week during either the fall or spring semester. In some cases, however, it is possible to make a credit equal to that of a course which recites three times a week by doing additional work under the direction of the instructor. In such cases it is usually not expected that credit will be given to students who go over the ground for the first time but it is designed for students who have partially covered the course or who have failed to complete it during the college year. The courses in elementary branches may not be taken for entrance credit by students who have not previously covered the ground, but they may be taken by students who lack something in their preparation, as a supplement to their high school course. Courses which are scheduled for less than five times a week during the summer session will be estimated upon the proper time basis.

NEW COURSES.

In response to a demand made by the students in the Summer Term for several years, it has been arranged to give courses in public speaking during the coming term. Messrs. Kershaw and Hawes will have charge of this work, and these courses may be taken by students for university credit or by teachers and others who desire the training in this department.

Two courses in Spanish will be given and these may be taken for college credit or for the cultural value which they afford. The addition of a second instructor to the department of Romance Languages will afford unusually fine opportunities for students to elect courses in elementary and advanced French. Especial attention is called to the course in French phonetics. This course is not given elsewhere in Maine, and it is a valuable drill in the pronunciation of the French language.

In the department of Physics it will be noted that several additional courses are offered. The usual laboratory courses are open to students who wish to make up arrearages, or, if properly prepared, to receive credits in advance of their course. Students who have studied physics in secondary schools but have not completed laboratory work are given opportunity to perform the necessary experiments here. Professor Stevens will give two courses designed especially for teachers. The first of these is a course of experimental lectures occupying two hours a week. In these lectures various experiments are performed and suggestions are made to teachers which should be helpful to them in their work. Another course



THE LIBRARY

occupying three hours a week will be devoted to a rapid review of a high school course. This will be based upon the text-book of Millikan and Gale but teachers who have any other text-books should bring them. These courses may also be taken by high school students who have taken physics for one year but have failed to pass the course.

The department of German offers a course which is especially adapted to teachers. This is fully outlined under that department. There are also offered courses in scientific German and conversational German which should prove of great value to teachers and college students.

So far as possible prospective students are urged to indicate in advance which line of work they wish to pursue so that a schedule may be planned to meet the needs of all.

CERTIFICATES.

Students who complete one or more courses at the Summer Term will be given a certificate signed by the President of the University and by the State Superintendent of Public Schools. This certificate will state the subject and the number of credits to which it entitles the student. The record of this is kept at the office of the University and also at the office of State Superintendent of Public Schools. In this way the teachers of the state will have an opportunity to obtain proper recognition of their work at the hands of the State Superintendent and this will doubtless prove of advantage to them in their educational career. Students from out of the state are entitled to the same privileges, including certificates, as those who come from Maine.

LOCATION.

There are few places in the United States where so fine a summer climate is combined with such educational advantages as are offered at the University of Maine. The town of Orono is an attractive place of genuine New England characteristics, free from the noise and dirt of the large cities.

It is located on the Maine Central Railroad, eight miles from Bangor. It has an hourly railroad connection and a half hourly trolley connection with this city. Students coming from a distance will find a steamboat trip from Boston desirable and will enjoy a beautiful sail up the Penobscot river. From Bangor the electric cars of the Bangor Railway & Electric Company run through the University campus.

The University grounds contain about 360 acres and include a beautiful campus with hundreds of fine shade trees and thousands of shrubs and flowering plants. The Stillwater river, a branch of the Penobscot, bounds the campus on the west and a large tract of woods lies to the east. On the south is to be seen a beautiful range of hills and 50 miles to the north stands Mt. Katahdin, which may be clearly seen from some of the college buildings. On the campus are about 30 University buildings, including dormitories for men and women, recitation halls, laboratories, library, and gymnasium.

COURSES OF INSTRUCTION

BOTANY.

MR. CONSER:

1. Field Botany. This course will deal with the kinds, habits, and habitats of plants about the University, including short excursions to several outlying regions for collecting and identifying species in field and forest. Attention will also be given to methods of pollination, modes of migration, excursions to several outlying regions for collecting, and other factors of environment, such as light, heat, soil, water, gravity, and the effects of other plants. There will be a few lectures, some reference reading, and a small amount of laboratory work confined mostly to rainy days.
2. Laboratory Botany. A course designed primarily for teachers and dealing with laboratory methods. Exercises will be given in collecting and preserving material of different kinds in different ways. Considerable time will be devoted to experimental work on the physics and physiology of plant life based on the phenomena of absorption and movement of solutions, transpiration, respiration, carbon assimilation, and reproduction. Attention will also be given to the teaching of botany in secondary schools.

CHEMISTRY.

MR. BURGESS:

1. Preparatory Elementary Chemistry, descriptive and experimental, lectures and recitations. A laboratory course covering the work required for entrance to the University.
2. General Inorganic Chemistry, corresponding to work of the freshman year.
3. Advanced courses adapted to the needs of the students registering for them. A special teachers' course will be given, covering methods of teaching chemistry, construction of apparatus, and experimentation, if a sufficient number elect it.

EDUCATION.

PROFESSOR DAVIDSON:

1. Organization and Administration.—Studies in school law. Comparative studies of school organization in Maine, in other states, and in Germany, France, and England. School administration.

2. Foundations of Education. — Studies in the nervous and mental organization of man with special reference to his capacity for education. The central nervous system, the brain, and the special senses will be studied with reference to their functions and contributions to education. Speech and the higher mental processes will be considered to establish a scientific procedure in instruction.
3. Child Study. — Studies of the child from birth to maturity. The physical child. The order of development of the mental powers; adolescence; adaption of studies to the child. Note. — Either No. 2 or No. 3 will be given, but not both, unless the registration for each is above ten.
4. English Grammar. — In this course special study will be given to those constructions in prose text that are omitted in the handbooks of grammar. The course will also include a discussion of the different parts of speech and of the syntactic relations, to discover principles of classification where grammars disagree. The functions of prepositions, the relations expressed by infinitives and noun clauses, with their analogues in noun and phrase constructions will be examined, and also the genesis of noun and adverbial clauses. Advanced works for reference will be provided, but all should bring for purposes of comparison such handbooks of grammar as they possess.

ENGLISH.

MR. KERSHAW; MR. HAWES:

1. A course in preparatory English for the benefit of students who have entrance credits to make in this department.
2. English Composition and Rhetoric. The work in this course is similar to that of the fall semester of the freshman year in the University. It consists of the study of text-books, discussions of principles and methods, and practice in writing. The written work, which is based largely upon the personal observations and experiences of the student, is discussed before the class in order to give practical illustration of principles and methods. Teachers will obtain from this course a familiarity with the methods of teaching English composition followed in the University, and special effort will be made to meet their needs. The text-book used will be Espenshade's Composition and Rhetoric.
3. English Prose. A study of the style and substance of selected writings from the works of English prose writers of the Nineteenth Century. Among the writers dealt with will be Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. There will be frequent written reports on the reading assigned, the purpose of the reports being to give practice in writing and to encourage the student toward intelligent interpretation and appreciation of what he reads.

4. English Poetry. A careful and appreciative study of selected poems from the writing of English poets of the early part of the Nineteenth Century. Among the writers dealt with will be Wordsworth, Coleridge, Byron, Shelley, and Keats. An attempt will be made to determine the characteristic merits of the poets studied and to show the relation of these poets to the time in which they lived.
5. An additional course in Shakespeare (a careful reading of a few of the best plays) will be given, if there is sufficient demand.

FRENCH.

PROFESSOR RAGGIO; MR. RAICHE:

- 1 a. Elementary Course.*—This course is intended for beginners. The text-book used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 1-73. MR. RAICHE.
- 1 b. Continuation of Course 1 a.†—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 73-128; Rambeau's *French Reader* (Henry Holt & Co.). PROF. RAGGIO.
- 1 c. Continuation of Course 1 b.†—The text-books used will be Fraser and Squair's *Abridged French Grammar* (D. C. Heath & Co.), pp. 337-344; Rambeau's *French Reader* (Henry Holt & Co.). MR. RAICHE.
2. Intermediate Course.—This course is intended for those who have already the required number of points for Entrance French, and who wish a course in French that may be counted towards a bachelor's degree. The text-books used will be Augier and Sandeau's *Le Gendre de M. Poirier* (American Book Co.); France's *Le Livre de mon ami* (Henry Holt & Co.); Gasc's *Concise Dictionary of the French and English Languages* (Henry Holt & Co.), or Clifton & McLaughlin's *New Dictionary of the French and English Language* (Wm. R. Jenkins Co.). Students should bring with them their grammars. MR. RAICHE.
3. Empirical French Phonetics.—This course is intended for teachers who wish to concentrate their efforts upon French pronunciation. Students will be made familiar with the alphabet of L'Association Phonétique Internationale. Lectures on phonetic subjects will be given, and each member of the class will be expected to read, memorize, and declaim passages written in phonetic script. The text-books used will be Matzke's *A Primer of French Pronunciation* (Henry Holt & Co.) and Passy and Rambeau's *Chrestomathie française* (Leipzig, B. G. Teubner or New York, Henry Holt & Co.). PROF. RAGGIO.

*The requirements for Entrance French may be met by taking Courses 1a, 1b, and 1c in consecutive years.

†Students who already have two of the four points required for Entrance French may complete their requirements during one Summer Term by taking courses 1b and 1c.

4. Colloquial French. — The object of this course is to familiarize the student with the common words and things of daily life. The text-book used will be Alge, Ripmann, and Buell's *First French Book* (Newson & Co.).

PROF. RAGGIO.

GERMAN.

PROFESSOR CARR:

1. Elementary Course. For those who wish to acquire or review the essentials of German grammar and the foundations of a German vocabulary. Text-books; Whitney's Brief German Grammar (H. Holt & Co.); Grimm's *Kinder-und Hausmärchen* (D. C. Heath & Co.)
2. Teachers' Course. Primarily for teachers of German and students intending to teach German; secondarily for undergraduates and other students wishing to earn college or entrance credit in German. The forty-nine German texts recommended by the Modern Language Association of America and the University of Maine for use in preparatory schools will all be outlined and discussed. Each member of the class will read privately and report on least at one text every week. The class will have access to the German Seminar of the University of Maine library. This seminar contains one of the largest collections in America of German text-books used in preparatory schools and colleges. Incidentally the respective merits of rival editions of favorite texts and text-books will be discussed. The complete list of forty-nine elementary and advanced German texts mentioned above from which selection must ordinarily be made by preparatory teachers is as follows: (a) For elementary classes: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; von Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*. (b) For advanced classes: von^MEbner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten*, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, and *Aus dem Staat Friedrichs des Grossen*; Fouque's *Undine*; Gerstäcker's *Irrfahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie auf Tauris*; Heine's *Poems* and *Reisebilder*; Hoffman's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, and *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, and *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; and Wildenbruch's *Das edle Blut*.

3. Scientific German. For those who wish to acquire the ability to read elementary German works on physics, chemistry, botany, zoology, geology, engineering, astronomy, agriculture, physiology, mathematics, etc. The ability to read German, especially the German relating to one's chosen subject, is required of advanced students in pure science, engineering, and practically all other branches of learning. Text-books: Gore's German Science Reader (D. C. Heath & Co.) and Blochmann's Scientific German (H. Holt & Co.)
4. Conversational German. For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs. Text-books: Vos's Materials for German Conversation (H. Holt & Co.) and Deutsches Liederbuch (D. C. Heath & Co.)

HISTORY AND SOCIOLOGY.

PROFESSOR SPRAGUE:

1. United States History. Critical periods and formative forces from the Revolution to the Civil War.
2. Modern Europe. The economic and other forces producing the civilization of Europe in modern times will be given much attention.
3. English History. A course in English History will be offered, the details of which will be arranged according to the demand after the opening of the term.
4. Social Problems and Reforms. The course will be devoted to a study of the family, its history, and problems; divorce; criminality; poverty and its relief; socialism: anarchy: workmen's insurance, and other reforms, as far as time permits.

LATIN.

PROFESSOR HOEING:

The Latin Department offers two distinctly different lines of study, intended to meet the needs of three classes of students.

1. FOR TEACHERS OF LATIN, AND FOR STUDENTS WISHING TO GAIN ENTRANCE CREDITS IN LATIN, one course is offered in Virgil and one in Cæsar's Gallic War. In these two courses various questions connected with the teaching of Latin will be discussed, such as questions of spelling and pronunciation, of grammatical forms and inflections, of syntax, prosody, etc.; also questions of bibliography, methods of translation, history, mythology, literature, and the various aids to the elucidation of the authors studied, together with the fundamental principles of the Latin language.



A VIEW ON THE CAMPS

2. FOR STUDENTS WHO DESIRE COLLEGE CREDITS LOOKING TO THE B. A. DEGREE. It is the plan of the department to offer a double course that shall cover the work of an entire college semester and be equivalent to that required for one college credit, and to vary this course from year to year so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. For the summer of 1909 it is proposed to offer a course in Cicero, *De Senectute*, and Horace, Odes and Epodes, or a course in the minor works of Tacitus. The decision will rest with the class. This will be equivalent to the work offered for the second semester of the Freshman year. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

MATHEMATICS.

PROFESSOR HART; MR. REED:

1. High School Algebra. — A course intended for teachers in preparatory schools and covering the second year's work. Especial attention will be given to the methods of presenting this subject and those topics will be emphasized that are most important in preparation for college work. Candidates for admission to the University who are deficient in a part of their preparation in algebra are also advised to take this course.
2. Plane Geometry. — A review of the more important theorems with practice in the demonstration of original propositions and in the solution of numerical exercises. For teachers in preparatory schools and for candidates for admission who are slightly deficient in geometry.
3. Solid Geometry. — This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Bush and Clarke's Solid Geometry will probably be used as the text-book, but Phillips and Fisher's, Wells's, and other books will be used for reference.
4. Plane Trigonometry. — The solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which will be useful for reference.
5. College Algebra. — The theory of quadratic equations, the binominal theorem, and so much of the regular freshman course in algebra as time will permit. Text-book to be selected at the opening of the term.

6. Analytic Geometry. — A brief course covering the elements of this subject.
 7. Differential and Integral Calculus. — A course intended for teachers in preparatory schools who wish to gain a knowledge of the elements of this subject.
 8. Descriptive Astronomy. — Lectures accompanied by work in the observatory.
- Note. — Six of the above courses will be given, to be determined by the number of students selecting them.

PHYSICS.

PROFESSOR STEVENS; PROFESSOR WOODMAN:

1. An elementary laboratory course.
This includes the list of experiments adopted by the Maine colleges for admission in Physics.
2. Advanced laboratory course.
Work in any laboratory course offered in the University may be taken by students in the summer term who are properly qualified.
3. College Physics. A course based upon those parts of Crew's text-book in physics which treat of mechanics and heat. This course may be taken for credit by University students who have covered the ground in physics 2, but have failed in the subject.
4. A series of experimental lectures on general physics.
The grade of the work in this course will be determined by the preparation of the students electing it.
5. High School Physics. A rapid survey of the ground covered in high school, based upon Millikan and Gale's text-book. This course is designed to meet the needs of teachers in high schools and it may be taken as a rapid review by students who have covered the ground in high school but have failed to pass college entrance examinations.

PUBLIC SPEAKING

MR. KERSHAW; MR. HAWES:

1. The purpose of this course is to give the student a practical knowledge of the fundamental principle of effective public speaking. The work consists of voice training by means of practice work in classes, reading aloud for interpretation, and the acquirement of ease in pose and gesture.
2. In this course the training acquired in course 1 will be applied to the delivery of model public orations, and especially to the speeches of the students' own composition. Attention will be given to the correction of individual faults. Courses 1 and 2 will occupy two hours each per week and may be taken by university students as a substitute for English 1a and 1b.
3. A more advanced course in public speaking, for those who desire special training in this department. Individual instruction will be given adapted to the needs of those electing the course.

SPANISH.

PROFESSOR RAGGIO:

- 1a. Elementary Course. — This course is intended for beginners. The text-book used will be Hills and Ford's *Spanish Grammar* (D. C. Heath & Co.), pp. 1-98.
- 1b. Continuation of Course 1a. — The text-books used will be Hills and Ford's *Spanish Grammar* (D. C. Heath & Co.), pp. 98-183; Ramsey's *Elementary Spanish Reader* (Henry Holt & Co.). This course will not be given in 1909.

LECTURES.

A series of evening lectures will be given by members of the Faculty of the University and others on subjects of general interest to the student body and to the public. These lectures are free to those who wish to attend them, whether members of the Summer Term or not.

VESPER SERVICES.

A brief religious service is conducted each Sunday at 4 o'clock in the Lecture Hall in the Library. This consists of a song service and an address.

LIBRARY.

Throughout the Summer Term the University library of 37,000 volumes, and the reading room containing about 300 periodicals and the Maine daily papers will be open from 9 A. M. to 12 M. and from 2 P. M. to 5 P. M. daily, except Sunday. The library privileges ordinarily accorded the university students, including the home use of books, will be extended to the students in the Summer Term.

LABORATORIES, MUSEUMS, AND OBSERVATORY.

The laboratories belonging to the departments of physics, chemistry, and botany will be available for use of the students. In the physical laboratory there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University. All necessary apparatus is supplied to the student without charge.

In the laboratories a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The botanical laboratory is in charge of the professor of biology. The student is furnished with microscope, specimens, and preparations for advanced work.

The museum is illustrative of the rocks, flora, and fauna of Maine, and will be open at stated periods for the use of the students.

The observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

EXPENSES.

Tuition for the term of six weeks, covering all charges for instruction in any number of courses that the student may elect, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories:

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

Board and room in the University buildings, including light and the necessary furniture, \$24 for the term. This includes the period from the morning of June 28th to the evening of August 6th. The charge for rooms without board is \$1.00 per week; and for board at the Commons \$3.50 a week. Board may also be had at the Mount Vernon House for \$5.00 a week. This board, while of no more substantial a character than that offered at the Commons, affords a greater variety in the bill of fare. Students are asked to indicate their preference in this regard as early as convenient.

RECREATION.

Most of the class work will be held during the forenoon, leaving the afternoon and evening free for study and recreation.

On the campus are several excellent tennis courts. The neighboring country affords many attractive excursions, on foot, by bicycle, carriage, or electric cars. Maine's famous seaside resort, Bar Harbor, is but one and one-half hours distant by rail from Bangor, while Mount Kineo and Moosehead Lake are at only a slightly greater distance and easily accessible.

Within easy driving or wheeling distance are Pushaw and Chemo lakes, as well as several attractive mountains.

Steamboat trips from Bangor to the beautiful resorts on Penobscot river and bay are inexpensive and delightful.

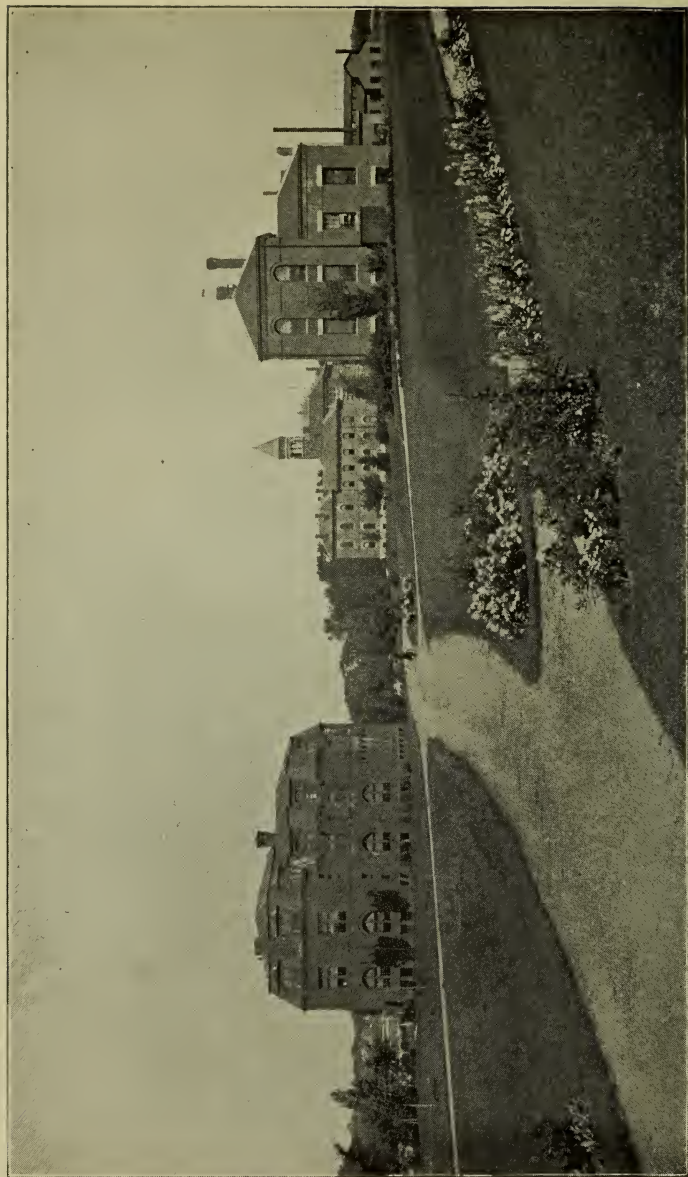
IN GENERAL

So far as possible the recitations are placed in the forenoon and the special lectures in the evening, leaving the afternoons free for study and recreation,

In order to give six full weeks of instruction and to avoid continuing the session until the heated term, the date of beginning was fixed for June 28th. Students to whom this early date proves inconvenient may register for a five weeks course on the Monday following the fourth of July. While it is desirable that all students begin at the opening of the course, all possible aid will be given such students as are unable to register until later in the making up of the work which has been omitted.

Prospective students are invited to consult Dean Stevens, who is in charge of the Summer Term, or any of the other instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers and others who may desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn.



A GROUP OF BUILDINGS

STUDENTS IN 1908

(Abbreviations indicate subjects taken)

Adams, Arthur Linwood	<i>Brewer</i>	Ms.
Electrician		
Bassett, Myrtis Ethel, B. A.	<i>Old Town</i>	Lt.
Colby College, 1907.	Teacher of Latin, Hebron Academy.	
Bearce, Ira Mellen, B. S.	<i>Hebron</i>	Ch. Ed.
University of Maine, 1904.		
Benjamin, Charles Smith	<i>Old Town</i>	Ch. Ms. Rm.
Bigney, Edmund Scammon	<i>Greenville</i>	Ms. Rm.
Bouroncle, Lewis Humberts	<i>Arequipa, Peru, S. A.</i>	Ed.
Bowdoin, Isaiah Adelbert, B. A.	<i>Bucksport, R. F. D. No. 1</i>	Ch. Ed
Colby College, 1906.	Principal of Cornish High School.	
Bowman, Harold Melville,	<i>Salmon Falls, N. H.</i>	Ec. Eh. Hy.
Brown, Jennie Christiania	<i>Orono</i>	Bl. Eh. Hy. Ms.
Buzzell, Robert Loring	<i>Old Town</i>	Bl. Rm.
Callahan, Edgar Frederic	<i>Orono</i>	Ed. Eh. Gm. Ms.
Campbell, Mary Elizabeth, A. B.	<i>Cherryfield</i>	Bl. Gm.
Smith College, 1907.	Assistant in Attleboro, (Mass.), High.	
School.		
Campbell, Morton Alfred, B. S.	<i>Townsend, Mass.</i>	Ed. Lt. Rm.
Boston University, 1900.		
Catell, Alfred LeRoy	<i>Bangor</i>	Rm
Cavanaugh, Alice Xavier	<i>Milford</i>	Bl.
Teacher in Grammar School.		
Chase, Mary Ella	<i>Bluehill</i>	Bl. Eh. Gm.
Cleveland, Charles Calvin	<i>Skowhegan</i>	Bl. Eh. Rm.
Coney, Eunice Rachael	<i>Bangor</i>	Bl. Ed.
Teacher.		
Dixon, Esther Margaret	<i>Southwest Harbor</i>	Ed. Hy. Lt. Rm.
Teacher.		
Drew, Lawrence Evans	<i>Brunswick</i>	Ms. Rm.
Ellis, Olive Irene	<i>Orono</i>	Ms. Rm.
Estabrooke, Carl Bertrand	<i>Orono</i>	Bl. Eh. Ec. Hy.
Estabrooke, Marion Corthell	<i>Orono</i>	Eh.
Faulkner, William Thomas	<i>Orono</i>	Eh. Ms.
Fernald, Ellie Mae	<i>Argyle</i>	Eh. Lt.
Teacher.		
Gallagher, Joseph Francis	<i>Bangor</i>	Gm. Lt. Ms.
Gardner, Leroy Whittier	<i>Dennysville</i>	Bl. Ch. Rm.
Geery, Louis Duncan Tallman	<i>Katahdin Iron Works</i>	Ms. Ps. Rm.
Gerrish, Evan Stanley	<i>Bangor</i>	Eh.
Given, Jane Mary, A. B.	<i>Bowdoinham</i>	Bl. Eh. Rm.
Bates College, 1904.	Assistant in Millinocket High School.	
Goodrich, Merton Taylor	<i>Bingham</i>	Ed. Gm. Hy. Ps.
Goodwin, Carol	<i>Skowhegan</i>	Ch. Rm.
Gould, Ralph Wadlin	<i>Belfast</i>	Hy. Ms. Ps.
Gower, Winnibel	<i>Skowhegan</i>	Ed. Eh. Lt.
Assistant in Madison High School.		

Grady, Catherine Josephine	<i>Old Town</i>	Bl. Hy.
Teacher in Grammar School.		
Graffam, Perley Edmund, A. B.	<i>Mechanic Falls</i>	Ed. Ch. Ps. Rm.
Bates College, 1899. Principal of High School.		
Hardy, Sineon James	<i>East Hampden</i>	Ch. Ms. Rm.
Harvey, Florence Evelyn	<i>Orono</i>	Ms.
Hill, Herbert Staples, A. B.	<i>Yarmouth</i>	Ed. Ch. Ps.
Principal of High School.		
Hodgdon, Daniel Russell	<i>Corinna</i>	Ed. Ch. Gm. Ps.
Principal Corinna Union Academy.		
Hodgdon, Leona Fogg	<i>Corinna</i>	Eh. Hy. Rm.
Assistant in Corinna Union Academy.		
Holton, Carl Russell	<i>Boothbay Harbor</i>	Ms. Rm.
Howard, George Crosby	<i>Orono</i>	Ec. Ed. Eh.
Pastor Methodist Episcopal Church.		
Jackson, Ralph Lysander	<i>Jefferson</i>	Ms.
La Marche, Ernest Lane	<i>Caribou</i>	Lt. Ms.
La Marche, George Everett	<i>Orono</i>	Lt. Ms. Rm.
Leong, Yuen Foo	<i>Canton, China</i>	Ms.
Libby, Julia May	<i>Hartland</i>	Ed. Eh.
Linn, Tse Sheng	<i>Hong Kong, China</i>	Ed. Hy.
Linscott, Herman Joseph	<i>Damariscotta Mills</i>	Gm. Ms.
Loring, Charles Sewall	<i>Jay</i>	Ms.
MacSkimmon, Anna Belle	<i>Bangor</i>	Eh. Gm.
Teacher in Bangor Public Schools.		
Maddocks, Chester Arthur	<i>Ellsworth</i>	Ms.
Teacher in Bortentown (N. J.) Military Institute.		
Mayo, Clarence Arthur	<i>Hampden Corner</i>	Eh. Ms. Ps.
Mehann, Marcia Winifred	<i>Alton</i>	Bl. Eh. Ms.
Merrill, Dimon Emery	<i>Alfred</i>	Hy. Ms. Ps.
Moots, Elmer Earl, B. C. E., M. S.	<i>Stillwater</i>	Gm. Rm.
Highland Park College, 1906. University of Maine, 1908.		
Instructor in Mathematics, University of Maine.		
Morse, Mary Leland	<i>Orono</i>	Gm.
O'Neill, Edward Lynch	<i>Portland</i>	Ms. Rm.
Parker, Edward Alton, B. S.	<i>Skowhegan</i>	Ch. Ed. Ms.
University of Maine, 1904.		
Parlin, Amber Lorene, A. B.	<i>Bradley</i>	Bl. Ps.
Bates College, 1904. Assistant in Gardiner (Mass.) High School.		
Parkhurst, Arthur Daniel, Ph. B.	<i>Lisbon</i>	Ch. Ed. Ps.
Earlham College, 1896. Principal Winthrop High School.		
Peabody, Ellen Holway	<i>Machias</i>	Gm. Pl.
Teacher.		
Perkins, De Forest Henry, B. Ph.,		
M. A., LL. B.	<i>Skowhegan</i>	Ed.
University of Maine, 1900, 1905. Dist. Supt. Madison and		
Skowhegan.		
Perkins, Lena Georgia	<i>Oxford</i>	Ed. Hy. Ms.
Assistant in Oxford High School.		

Perkins, Walter Ezra	<i>Old Town</i>	Ms. Ps. Rm.
Pettegrew, Herbert Tracy	<i>East Machias</i>	Hy. Rm.
Proctor, Clarence William, A. B.	<i>North Windham</i>	Ed.
Bowdoin, 1898.		
Rowell, Frank Lester	<i>Canaan</i>	Ed.
District Superintendent, Canaan and Clinton.		
Russell, Mary Etta	<i>Orono</i>	Bl.
Ryan, John Bernard	<i>Orono</i>	Ms. Rm.
Ryan, Philip Eary	<i>Milltown</i>	Ms. Rm.
Sanborn, Arnold Merriam, A. B.	<i>Wilton</i>	Ed. Ps.
Colby College, 1908. Principal of Calais High School.		
Scott, Arthur Leon	<i>Portland</i>	Ch. Gm. Ms
Shaw, Christine Myrtle	<i>Orono</i>	Rm.
Shaw, Franklin Aked	<i>Orono</i>	Lt. Rm.
Sinclair, Roy Leighton	<i>Yarmouth</i>	Lt. Ps. Rm.
Principal of Grammar School.		
Smith, Herman Brackett	<i>Saco</i>	Hy. Rm.
Smith, Leon Charles	<i>Topsham</i>	Eh. Ms.
Stanley, Winthrop Hamor	<i>Hull's Cove</i>	Ms. Ps. Rm.
Sub-Master of Norway High School.		
Stetson, May Frances	<i>Caribou</i>	Eh. Rm.
Teacher of Dramatic Art and Expression, Seminary, Bucksport.		
Tabor, James Atwood, Jr.	<i>Corinna</i>	Lt. Ms. Rm.
Taft, Leonora Ellen	<i>Boston, Mass.</i>	Ch. Ec. Ed. Lt. Ms.
Teacher in Grammar School.		
Taylor, Josiah Willard, B. A.	<i>Turner</i>	Ed.
Wesleyan University, 1902. Superintendent of Schools, Turner and Clinton.		
Thomas, Anna Louise	<i>Canton</i>	Ed. Eh. Lt. Rm.
Tibbetts, William Herbert	<i>Bangor</i>	Eh. Gm. Rm.
Principal of Searsport High School.		
Trafton, Berdena Esther	<i>Hartland</i>	Ed. Eh. Lt
Assistant in Skowhegan High School.		
Tucker, Samuel Gordon	<i>Bangor</i>	Ch. Eh. Gm.
Pastor A. C. Church, Bucksport.		
Wade, Mary Isabelle	<i>Portland</i>	Ch. Eh.
Wadleigh, Jennie Mitchell	<i>Old Town</i>	Gm. Lt.
Teacher.		
Wass, Clifton Ennis	<i>Sangerville</i>	Ec. Ed. Lt.
Superintendent of Schools, Sangerville and Greenville.		
Weatherlow, Jane Knight, A. B.,	<i>Seneca Falls, N. Y.</i>	Gm. Lt.
Principal of High School.		
Whitcomb, Newell Bryant	<i>Bangor</i>	Eh. Ms. Ps.
Wildes, Robert Patten	<i>Skowhegan</i>	Ch. Rm.
Williams, Harvey Reed	<i>South Braintree, Mass.</i>	Ec. Eh. Hy.
Grammar Master.		
Winchester, Sidney Hodge	<i>Corinna</i>	Ms.
Wiseman, Bessie Hinton	<i>Milford</i>	Bl. Hy.
Teacher.		

Wormwood, Alice Eleanor

Old Town

Lt. Rm.

Young, Myrtie Gertrude

Washington, D. C.

Ed. Rm.

Principal in Public Schools, Washington, D. C.

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